

FABRY DISEASE MAY CAUSE DAMAGE TO THE KIDNEYS AND MULTIPLE ADDITIONAL ORGAN SYSTEMS



Fabry disease is a rare lysosomal disorder affecting both male and female patients. It is caused by variants (mutations) in the galactosidase alpha gene (*GLA*), leading to functional deficiency of alpha-galactosidase A (alpha-Gal A) in the lysosomes. This allows progressive accumulation of disease-causing substrates, including globotriaosylceramide (GL-3), and a cascade of tissue damage in multiple organs¹



Renal symptoms often begin in the 2nd and 3rd decades of life and are followed by decreasing renal function and, in some patients, renal failure. Renal manifestations are major contributors to the morbidity and mortality in Fabry disease¹

When to consider testing for Fabry disease? Prominent renal symptoms include:

- Proteinuria of unknown origin, microalbuminuria/albuminuria¹
- Decreased glomerular filtration rate and progressive renal failure^{1,2}
- Chronic kidney disease¹

Additional signs and symptoms that may be present in Fabry disease include:

- **Cardiac:** Left ventricular hypertrophy; cardiomyopathy; arrhythmia and impaired heart rate variability; cardiac ischemia leading to angina and myocardial infarction¹
- **Dermatologic:** Angiokeratoma; dyshidrosis leading to temperature and exercise intolerance¹
- **Gastrointestinal:** Abdominal pain (often after eating); diarrhea; nausea and vomiting, which may lead to anorexia¹
- **Nervous:** Acroparesthesia (burning pain in hands and feet); headache; neuropathic pain; pain crises; stroke; transient ischemia attack^{1,3}
- **Otolaryngologic:** Cornea verticillata; dizziness/vertigo; hearing loss; tinnitus¹

The relationship between kidney interstitial capillary (KIC) GL-3 substrate reduction with Galafold® (migalastat) and improvements in symptoms, complications, and quality of life has not been established.

Please see Important Safety Information on reverse and accompanying Full Prescribing Information.



THE FIRST ALPHA-GALACTOSIDASE A (ALPHA-GAL A) PHARMACOLOGICAL CHAPERONE AND FIRST ORAL THERAPY⁴

Galafold offers a choice in treatment for adults with confirmed Fabry disease and an amenable *GLA* variant associated with either the classic* or non-classic phenotype^{5,6}

- Restores the normal pathway for trafficking amenable alpha-Gal A to the lysosome⁴
- The apparent volume of distribution (V_z/F) is approximately 89 L (range: 77 to 133 L) at steady state⁴
- In patients with an amenable *GLA* variant, Galafold reduced KIC GL-3 vs placebo from Baseline to Month 6 with greater effect in patients with higher KIC GL-3 at Baseline (≥ 0.3 inclusions per capillary)⁴

INDICATION AND IMPORTANT SAFETY INFORMATION

INDICATIONS AND USAGE

Galafold[®] (migalastat) is indicated for the treatment of adults with a confirmed diagnosis of Fabry disease and an amenable galactosidase alpha gene (*GLA*) variant based on *in vitro* assay data.

This indication is approved under accelerated approval based on reduction in kidney interstitial capillary cell globotriaosylceramide (KIC GL-3) substrate. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trials.

IMPORTANT SAFETY INFORMATION

ADVERSE REACTIONS

The most common adverse drug reactions reported with Galafold ($\geq 10\%$) are headache, nasopharyngitis, urinary tract infection, nausea, and pyrexia.

USE IN SPECIFIC POPULATIONS

The safety and effectiveness of Galafold have not been established in pediatric patients.

There is insufficient clinical data on Galafold use in pregnant women to inform a drug associated risk for major birth defects and miscarriage. Advise women of the potential risk to a fetus.

It is not known if Galafold is present in human milk. Therefore, the developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for Galafold and any potential adverse effects on the breastfed child from Galafold or from the underlying maternal condition.

Galafold is not recommended for use in patients with severe renal impairment or end-stage renal disease requiring dialysis.

The safety and effectiveness of Galafold have not been established in pediatric patients.

To report Suspected Adverse Reactions, contact Amicus Therapeutics at 1-877-4-AMICUS or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

Please see accompanying Full Prescribing Information.

*Defined as males with residual peripheral blood mononuclear cell alpha-Gal A <3% of normal and multiorgan system involvement.

References: 1. Germain DP. Fabry disease. *Orphanet J Rare Dis.* 2010;5:30. doi:10.1186/1750-1172-5-30. 2. Eng CM, Germain DP, Banikazemi M, et al. Fabry disease: guidelines for the evaluation and management of multi-organ system involvement. *Genet Med.* 2006;8(9):539-548. 3. Burlina AP, Sims KB, Politei JM, et al. Early diagnosis of peripheral nervous system involvement in Fabry disease and treatment of neuropathic pain: the report of an expert panel. *BMC Neurol.* 2011;11:61. 4. Galafold Prescribing Information. Amicus Therapeutics, Inc.; June 2019. 5. Germain DP, Hughes DA, Nicholls K, et al. Treatment of Fabry's disease with the pharmacologic chaperone migalastat. *N Engl J Med.* 2016; 375(6):545-555. 6. Germain DP, Nicholls K, Giugliani R, et al. Efficacy of the pharmacologic chaperone migalastat in a subset of male patients with the classic phenotype of Fabry disease and migalastat-amenable variants: data from the phase 3 randomized, multicenter, double-blind clinical trial and extension study. *Genet Med.* 2019;21(9):1987-1997.

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use GALAFOLD safely and effectively. See full prescribing information for GALAFOLD.

GALAFOLD® (migalastat) capsules, for oral use

Initial U.S. Approval: 2018

RECENT MAJOR CHANGES

Dosage and Administration, Recommended Dosage and Administration (2.2) 6/2023

INDICATIONS AND USAGE

GALAFOLD is an alpha-galactosidase A (alpha-Gal A) pharmacological chaperone indicated for the treatment of adults with a confirmed diagnosis of Fabry disease and an amenable galactosidase alpha gene (*GLA*) variant based on in vitro assay data. (1, 12.1)

This indication is approved under accelerated approval based on reduction in kidney interstitial capillary cell globotriaosylceramide (KIC GL-3) substrate. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trials. (1)

DOSAGE AND ADMINISTRATION

- Select adults with confirmed Fabry disease who have an amenable *GLA* variant for treatment with GALAFOLD. (2.1)
- Treatment is indicated for patients with an amenable *GLA* variant that is interpreted by a clinical genetics professional as causing Fabry disease (pathogenic, likely pathogenic) in the clinical context of the patient. Consultation with a clinical genetics professional is strongly recommended in cases where the amenable *GLA* variant is of uncertain clinical significance (VUS, variant of uncertain significance) or may be benign (not causing Fabry disease). (2.1, 12.1)

- The recommended dosage of GALAFOLD is 123 mg orally once every other day. Take GALAFOLD at the same time of day and do not take on consecutive days. Swallow capsule whole. Do not cut, crush, or chew the capsule. (2.2)
- Take GALAFOLD on an empty stomach. Do not consume food or caffeine at least 2 hours prior to and 2 hours after taking GALAFOLD to give a minimum 4 hour fast. (2.2)
- If the GALAFOLD dose is missed, take the missed dose if it is within 12 hours of the time that the dose should have been taken. If more than 12 hours have passed, take GALAFOLD at the next planned dosing day and time following the original every-other-day dosing schedule. (2.3)

DOSAGE FORMS AND STRENGTHS

Capsules: 123 mg migalastat. (3)

CONTRAINDICATIONS

None. (4)

ADVERSE REACTIONS

Most common adverse drug reactions $\geq 10\%$ are: headache, nasopharyngitis, urinary tract infection, nausea, and pyrexia. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Amicus Therapeutics at 1-877-4AMICUS or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

See Full Prescribing Information for clinically significant drug interactions. (7.1)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 6/2023

FULL PRESCRIBING INFORMATION: CONTENTS*

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* Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

GALAFOLD is indicated for the treatment of adults with a confirmed diagnosis of Fabry disease and an amenable galactosidase alpha gene (*GLA*) variant based on in vitro assay data [see *Dosage and Administration (2.1) and Clinical Pharmacology (12.1)*].

This indication is approved under accelerated approval based on reduction in kidney interstitial capillary cell globotriaosylceramide (KIC GL-3) substrate [see *Clinical Studies (14)*]. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trials.

2 DOSAGE AND ADMINISTRATION

2.1 Patient Selection

Select adults with confirmed Fabry disease who have an amenable *GLA* variant for treatment with GALAFOLD [see *Clinical Pharmacology (12.1)*].

Treatment is indicated for patients with an amenable *GLA* variant that is interpreted by a clinical genetics professional as causing Fabry disease (pathogenic, likely pathogenic) in the clinical context of the patient. Consultation with a clinical genetics professional is strongly recommended in cases where the amenable *GLA* variant is of uncertain clinical significance (VUS, variant of uncertain significance) or may be benign (not causing Fabry disease).

2.2 Recommended Dosage and Administration

The recommended dosage of GALAFOLD is 123 mg orally once every other day.

Take GALAFOLD at the same time of day and do not take on consecutive days.

Swallow capsule whole. Do not cut, crush, or chew the capsule.

Take GALAFOLD on an empty stomach. Do not consume food or caffeine at least 2 hours prior to and 2 hours after taking GALAFOLD to give a minimum 4 hour fast [see *Clinical Pharmacology (12.3)*].

Water (plain, flavored, or sweetened), fruit juices without pulp, and caffeine-free carbonated beverages can be consumed during the fasting period.

2.3 Recommendations for a Missed Dose

If the GALAFOLD dose is missed, take the missed dose if it is within 12 hours of the time that the dose should have been taken. If more than 12 hours have passed, take GALAFOLD at the next planned dosing day and time following the original every-other-day dosing schedule.

3 DOSAGE FORMS AND STRENGTHS

Capsules: 123 mg of migalastat in a size “2” capsule with an opaque blue cap and opaque white body with “A1001” printed in black, containing white to pale brown powder.

4 CONTRAINDICATIONS

None.

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

In clinical trials, 139 patients with Fabry disease (79 females, 60 males, 92% Caucasian, ages 16 to 72 years), who were naïve to GALAFOLD or previously treated with enzyme replacement therapy, were exposed to at least one dose of GALAFOLD. Of the 139 patients, 127 patients were exposed to GALAFOLD 123 mg every other day for 6 months and 123 patients were exposed for greater than one year. The clinical trials included one randomized, double-blind, placebo-controlled clinical trial of 6 months duration followed by a 6-month open-label treatment phase (Study 1) [see *Clinical Studies (14)*]. A second trial was a randomized, open-label, active-controlled clinical trial of 18 months duration in patients with Fabry disease receiving enzyme replacement therapy who were randomized to either switch to GALAFOLD or continue enzyme replacement therapy (Study 2; NCT01218659). In addition, there were two open-label, long-term extension trials.

The most common adverse reactions reported with GALAFOLD ($\geq 10\%$) during the 6-month placebo-controlled, double-blind phase of Study 1 were headache, nasopharyngitis, urinary tract infection, nausea, and pyrexia.

Table 1 shows adverse reactions that occurred in at least 5% of patients treated with GALAFOLD during the 6-month placebo-controlled, double-blind phase of Study 1.

Table 1: Adverse Reactions* in Patients with Fabry Disease (Study 1)

Adverse Reaction	GALAFOLD % (N = 34)	Placebo % (N = 33)
Headache	35%	21%
Nasopharyngitis	18%	6%
Urinary tract infection**	15%	0
Nausea	12%	6%
Pyrexia	12%	3%
Abdominal pain	9%	3%
Back pain	9%	0
Cough	9%	0
Diarrhea	9%	3%
Epistaxis	9%	3%

* Adverse reactions were those that occurred in at least 5% of patients treated with GALAFOLD.

** Included urinary tract infection, cystitis, and kidney infection

Adverse reactions that occurred in > 5% of patients who received GALAFOLD in the 6-month open-label treatment phase of Study 1, in Study 2, and in the long-term extension trials (N = 115, mean duration of treatment 2.7 years) included those in Table 1 with the addition of vomiting.

7 DRUG INTERACTIONS

7.1 Effect of Other Drugs on GALAFOLD

Co-administration of GALAFOLD with caffeine decreases migalastat AUC and C_{max} [see *Clinical Pharmacology (12.3)*] which may reduce GALAFOLD efficacy. Avoid co-administration of GALAFOLD with caffeine at least 2 hours before and 2 hours after taking GALAFOLD [see *Dosage and Administration (2.2)*].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There were three pregnant women with Fabry disease exposed to GALAFOLD in clinical trials. As such, the available data are not sufficient to assess drug associated risks of major birth defects, miscarriage, or adverse maternal or fetal outcomes. In animal reproduction studies, no adverse developmental effects were observed (*see Data*).

The background risk for major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defects, loss, or other adverse

outcomes. In the U.S. general population, the background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

There is a study that collects data on pregnant women with Fabry disease, either exposed or unexposed to GALAFOLD. Healthcare providers are encouraged to register patients or obtain additional information by contacting the Pregnancy Coordinating Center at 1-888-239-0758, emailing fabrypregnancy@ubc.com, or visiting www.fabrypregnancyregistry.com.

Data

Animal Data

No adverse developmental effects were observed with oral administration of migalastat to pregnant rats and rabbits during organogenesis at doses up to 26 and 54 times, respectively, the recommended dose based on AUC. No effects on post-natal development were observed following oral administration of up to 500 mg/kg migalastat twice daily to pregnant rats (16 times the recommended dose based on AUC) during organogenesis and through lactation.

8.2 Lactation

Risk Summary

There are no data on the presence of migalastat in human milk, the effects on the breastfed infant, or the effects on milk production. Migalastat is present in the milk of lactating rats (*see Data*). When a drug is present in animal milk, it is likely that the drug will be present in human milk. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for GALAFOLD and any potential adverse effects on the breastfed infant from GALAFOLD or from the underlying maternal condition.

There is a study that collects data on effects of GALAFOLD on lactation for women with Fabry disease and their neonates and infants up to 1 year of age who are exposed through breast milk. Healthcare providers are encouraged to register patients or obtain additional information by contacting the Pregnancy Coordinating Center at 1-888-239-0758, email fabrypregnancy@ubc.com, or visit www.fabrypregnancyregistry.com.

Data

Animal Data

Migalastat concentrations in milk from rats following oral administration of up to 500 mg/kg twice daily (approximately 16 times the recommended human dose based on AUC) was approximately 2.5 times higher than levels in the rat maternal plasma at 4 hours post-dose. The concentration of migalastat in plasma from pups was approximately 11 times lower than the maternal plasma concentrations at 1-hour post-dose.

8.3 Females and Males of Reproductive Potential

Infertility

The effects of GALAFOLD on fertility in humans have not been studied. Transient and fully reversible infertility in male rats was associated with migalastat treatment at a systemic exposure (AUC) equivalent to the human exposure at the recommended dose. Complete reversibility was seen at 4 weeks after the termination of treatment. Migalastat did not affect fertility in female rats [see *Nonclinical Toxicology (13.1)*].

8.4 Pediatric Use

The safety and effectiveness of GALAFOLD have not been established in pediatric patients.

8.5 Geriatric Use

Clinical trials of GALAFOLD did not include sufficient numbers of patients 65 years of age and older to determine whether they respond differently from younger adult patients.

8.6 Renal Impairment

Migalastat is substantially excreted by the kidneys. Systemic exposure was significantly increased in subjects with severe renal impairment (eGFR less than 30 mL/min/1.73 m²).

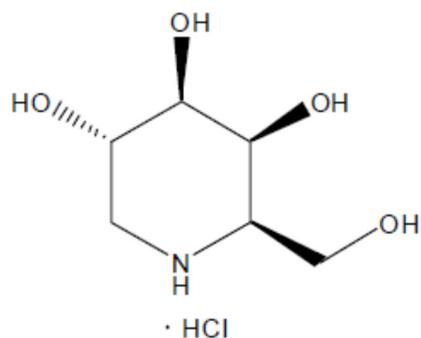
GALAFOLD has not been studied in patients with Fabry disease who have an eGFR less than 30 mL/min/1.73 m². GALAFOLD is not recommended for use in patients with severe renal impairment or end-stage renal disease requiring dialysis.

No dosage adjustment is required in patients with mild to moderate renal impairment (eGFR at least 30 mL/min/1.73 m² and above) [see *Clinical Pharmacology (12.3)*].

11 DESCRIPTION

Migalastat, an alpha-galactosidase A (alpha-Gal A) pharmacological chaperone, is a low molecular weight iminosugar and an analogue of the terminal galactose of globotriaosylceramide (GL-3).

Migalastat is present in the form of a hydrochloride salt in GALAFOLD. The chemical name for migalastat hydrochloride is (+)-(2R,3S,4R,5S)-2-(hydroxymethyl) piperidine-3,4,5-triol hydrochloride. Its molecular formula is C₆H₁₃NO₄•HCl, molecular mass is 199.63 g/mol, and its chemical structure is depicted below.



Migalastat hydrochloride is a white to almost white crystalline solid. It is freely soluble in aqueous media within the pH range of 1.2 to 7.5.

GALAFOLD (migalastat) capsules for oral administration contain 123 mg of migalastat (equivalent to 150 mg migalastat hydrochloride) as a white to pale brown powder and are supplied in a size “2” hard gelatin capsule with an opaque blue cap and an opaque white body imprinted with “A1001” in black ink. The inactive ingredients are magnesium stearate and pregelatinized starch. Capsule shells consist of gelatin, indigotine - FD&C Blue 2, and titanium dioxide. The black ink consists of black iron oxide, potassium hydroxide, and shellac.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Migalastat is a pharmacological chaperone that reversibly binds to the active site of the alpha-galactosidase A (alpha-Gal A) protein (encoded by the galactosidase alpha gene, *GLA*), which is deficient in Fabry disease. This binding stabilizes alpha-Gal A allowing its trafficking from the endoplasmic reticulum into the lysosome where it exerts its action. In the lysosome, at a lower pH and at a higher concentration of relevant substrates, migalastat dissociates from alpha-Gal A allowing it to break down the glycosphingolipids globotriaosylceramide (GL-3) and globotriaosylsphingosine (lyso-Gb₃). Certain *GLA* variants (mutations) causing Fabry disease result in the production of abnormally folded and less stable forms of the alpha-Gal A protein which, however, retain enzymatic activity. Those *GLA* variants, referred to as amenable variants, produce alpha-Gal A proteins that may be stabilized by migalastat thereby restoring their trafficking to lysosomes and their intralysosomal activity.

In Vitro Amenability Assay

In an in vitro assay (HEK-293 assay), Human Embryonic Kidney (HEK-293) cell lines were transfected with specific *GLA* variants (mutations) which produced mutant alpha-Gal A proteins. In the transfected cells, amenability of the *GLA* variants was assessed after a 5-day incubation with 10 micromol/L migalastat. A *GLA* variant was categorized as amenable if the resultant mutant alpha-Gal A activity (measured in the cell lysates) met two criteria: 1) it showed a relative increase of at least 20% compared to the pre-treatment alpha-Gal A activity, and 2) it showed an absolute increase of at least 3% of the wild-type (normal) alpha-Gal A activity.

The in vitro assay did not evaluate trafficking of the mutant alpha-Gal A proteins into the lysosome or the dissociation of migalastat from the mutant alpha-Gal A proteins within the lysosome. Also, the in vitro assay did not test whether a *GLA* variant causes Fabry disease or not.

The *GLA* variants which are amenable to treatment with GALAFOLD, based on the in vitro assay data, are shown in Table 2. Inclusion of *GLA* variants in this table does not reflect interpretation of their clinical significance in Fabry disease. Whether a certain amenable *GLA* variant in a patient with Fabry disease is disease-causing or not should be determined by the prescribing physician (in consultation with a clinical genetics professional, if needed) prior to treatment initiation. Consultation with a clinical genetics professional is strongly recommended in cases where the amenable *GLA* variant is of uncertain clinical significance (VUS, variant of uncertain significance) or may be benign (not causing Fabry disease).

Table 2: Amenable *GLA* Variants Based on the In Vitro Assay

DNA Change (Long)	DNA Change (Short)	Protein Change (1-letter Code)	Protein Change (3-letter Code)
c.7C>G	c.C7G	p.(L3V)	p.(Leu3Val)
c.8T>C	c.T8C	p.(L3P)	p.(Leu3Pro)
c.[11G>T; 620A>C]	c.G11T/A620C	p.(R4M/Y207S)	p.(Arg4Met/Tyr207Ser)
c.37G>A	c.G37A	p.(A13T)	p.(Ala13Thr)
c.37G>C	c.G37C	p.(A13P)	p.(Ala13Pro)
c.43G>A	c.G43A	p.(A15T)	p.(Ala15Thr)
c.44C>G	c.C44G	p.(A15G)	p.(Ala15Gly)
c.53T>G	c.T53G	p.(F18C)	p.(Phe18Cys)
c.58G>C	c.G58C	p.(A20P)	p.(Ala20Pro)
c.59C>A	c.C59A	p.(A20D)	p.(Ala20Asp)
c.65T>G	c.T65G	p.(V22G)	p.(Val22Gly)
c.70T>C or c.70T>A	c.T70C or c.T70A	p.(W24R)	p.(Trp24Arg)
c.70T>G	c.T70G	p.(W24G)	p.(Trp24Gly)
c.72G>C or c.72G>T	c.G72C or c.G72T	p.(W24C)	p.(Trp24Cys)
c.95T>C	c.T95C	p.(L32P)	p.(Leu32Pro)
c.97G>T	c.G97T	p.(D33Y)	p.(Asp33Tyr)
c.98A>G	c.A98G	p.(D33G)	p.(Asp33Gly)
c.100A>C	c.A100C	p.(N34H)	p.(Asn34His)
c.100A>G	c.A100G	p.(N34D)	p.(Asn34Asp)
c.101A>C	c.A101C	p.(N34T)	p.(Asn34Thr)
c.101A>G	c.A101G	p.(N34S)	p.(Asn34Ser)
c.102T>G or c.102T>A	c.T102G or c.T102A	p.(N34K)	p.(Asn34Lys)
c.103G>C or c.103G>A	c.G103C or c.G103A	p.(G35R)	p.(Gly35Arg)
c.104G>A	c.G104A	p.(G35E)	p.(Gly35Glu)

Table 2: Amenable *GLA* Variants Based on the In Vitro Assay

DNA Change (Long)	DNA Change (Short)	Protein Change (1-letter Code)	Protein Change (3-letter Code)
c.104G>T	c.G104T	p.(G35V)	p.(Gly35Val)
c.107T>C	c.T107C	p.(L36S)	p.(Leu36Ser)
c.107T>G	c.T107G	p.(L36W)	p.(Leu36Trp)
c.108G>C or c.108G>T	c.G108C or c.G108T	p.(L36F)	p.(Leu36Phe)
c.109G>A	c.G109A	p.(A37T)	p.(Ala37Thr)
c.110C>T	c.C110T	p.(A37V)	p.(Ala37Val)
c.122C>T	c.C122T	p.(T41I)	p.(Thr41Ile)
c.124A>C or c.124A>T	c.A124C or c.A124T	p.(M42L)	p.(Met42Leu)
c.124A>G	c.A124G	p.(M42V)	p.(Met42Val)
c.125T>A	c.T125A	p.(M42K)	p.(Met42Lys)
c.125T>C	c.T125C	p.(M42T)	p.(Met42Thr)
c.125T>G	c.T125G	p.(M42R)	p.(Met42Arg)
c.126G>A or c.126G>C or c.126G>T	c.G126A or c.G126C or c.G126T	p.(M42I)	p.(Met42Ile)
c.137A>C	c.A137C	p.(H46P)	p.(His46Pro)
c.142G>C	c.G142C	p.(E48Q)	p.(Glu48Gln)
c.152T>A	c.T152A	p.(M51K)	p.(Met51Lys)
c.153G>A or c.153G>T or c.153G>C	c.G153A or c.G153T or c.G153C	p.(M51I)	p.(Met51Ile)
c.[157A>C; 158A>T]	c.A157C/A158T	p.(N53L)	p.(Asn53Leu)
c.157A>G	c.A157G	p.(N53D)	p.(Asn53Asp)
c.160C>T	c.C160T	p.(L54F)	p.(Leu54Phe)
c.161T>C	c.T161C	p.(L54P)	p.(Leu54Pro)
c.164A>G	c.A164G	p.(D55G)	p.(Asp55Gly)
c.164A>T	c.A164T	p.(D55V)	p.(Asp55Val)
c.[164A>T; 170A>T]	c.A164T/A170T	p.(D55V/Q57L)	p.(Asp55Val/Gln57Leu)
c.167G>A	c.G167A	p.(C56Y)	p.(Cys56Tyr)
c.167G>T	c.G167T	p.(C56F)	p.(Cys56Phe)
c.170A>T	c.A170T	p.(Q57L)	p.(Gln57Leu)
c.175G>A	c.G175A	p.(E59K)	p.(Glu59Lys)
c.178C>A	c.C178A	p.(P60T)	p.(Pro60Thr)
c.178C>T	c.C178T	p.(P60S)	p.(Pro60Ser)
c.179C>T	c.C179T	p.(P60L)	p.(Pro60Leu)
c.196G>A	c.G196A	p.(E66K)	p.(Glu66Lys)
c.197A>G	c.A197G	p.(E66G)	p.(Glu66Gly)

Table 2: Amenable *GLA* Variants Based on the In Vitro Assay

DNA Change (Long)	DNA Change (Short)	Protein Change (1-letter Code)	Protein Change (3-letter Code)
c.207C>A or c.207C>G	c.C207A or c.C207G	p.(F69L)	p.(Phe69Leu)
c.214A>G	c.A214G	p.(M72V)	p.(Met72Val)
c.216G>A or c.216G>T or c.216G>C	c.G216A or c.G216T or c.G216C	p.(M72I)	p.(Met72Ile)
c.218C>T	c.C218T	p.(A73V)	p.(Ala73Val)
c.227T>C	c.T227C	p.(M76T)	p.(Met76Thr)
c.239G>A	c.G239A	p.(G80D)	p.(Gly80Asp)
c.239G>T	c.G239T	p.(G80V)	p.(Gly80Val)
c.247G>A	c.G247A	p.(D83N)	p.(Asp83Asn)
c.253G>A	c.G253A	p.(G85S)	p.(Gly85Ser)
c.[253G>A; 254G>A]	c.G253A/G254A	p.(G85N)	p.(Gly85Asn)
c.[253G>A; 254G>T; 255T>G]	c.G253A/G254T/T255G	p.(G85M)	p.(Gly85Met)
c.254G>A	c.G254A	p.(G85D)	p.(Gly85Asp)
c.261G>C or c.261G>T	c.G261C or c.G261T	p.(E87D)	p.(Glu87Asp)
c.265C>T	c.C265T	p.(L89F)	p.(Leu89Phe)
c.272T>C	c.T272C	p.(I91T)	p.(Ile91Thr)
c.288G>A or c.288G>T or c.288G>C	c.G288A or c.G288T or c.G288C	p.(M96I)	p.(Met96Ile)
c.289G>C	c.G289C	p.(A97P)	p.(Ala97Pro)
c.290C>T	c.C290T	p.(A97V)	p.(Ala97Val)
c.305C>T	c.C305T	p.(S102L)	p.(Ser102Leu)
c.311G>T	c.G311T	p.(G104V)	p.(Gly104Val)
c.316C>T	c.C316T	p.(L106F)	p.(Leu106Phe)
c.320A>G	c.A320G	p.(Q107R)	p.(Gln107Arg)
c.322G>A	c.G322A	p.(A108T)	p.(Ala108Thr)
c.326A>G	c.A326G	p.(D109G)	p.(Asp109Gly)
c.334C>G	c.C334G	p.(R112G)	p.(Arg112Gly)
c.335G>A	c.G335A	p.(R112H)	p.(Arg112His)
c.337T>A	c.T337A	p.(F113I)	p.(Phe113Ile)
c.337T>C or c.339T>A or c.339T>G	c.T337C or c.T339A or c.T339G	p.(F113L)	p.(Phe113Leu)
c.352C>T	c.C352T	p.(R118C)	p.(Arg118Cys)
c.361G>A	c.G361A	p.(A121T)	p.(Ala121Thr)
c.368A>G	c.A368G	p.(Y123C)	p.(Tyr123Cys)
c.373C>T	c.C373T	p.(H125Y)	p.(His125Tyr)

Table 2: Amenable *GLA* Variants Based on the In Vitro Assay

DNA Change (Long)	DNA Change (Short)	Protein Change (1-letter Code)	Protein Change (3-letter Code)
c.374A>T	c.A374T	p.(H125L)	p.(His125Leu)
c.376A>G	c.A376G	p.(S126G)	p.(Ser126Gly)
c.383G>A	c.G383A	p.(G128E)	p.(Gly128Glu)
c.399T>G	c.T399G	p.(I133M)	p.(Ile133Met)
c.404C>T	c.C404T	p.(A135V)	p.(Ala135Val)
c.408T>A or c.408T>G	c.T408A or c.T408G	p.(D136E)	p.(Asp136Glu)
c.416A>G	c.A416G	p.(N139S)	p.(Asn139Ser)
c.419A>C	c.A419C	p.(K140T)	p.(Lys140Thr)
c.427G>A	c.G427A	p.(A143T)	p.(Ala143Thr)
c.431G>A	c.G431A	p.(G144D)	p.(Gly144Asp)
c.431G>T	c.G431T	p.(G144V)	p.(Gly144Val)
c.434T>C	c.T434C	p.(F145S)	p.(Phe145Ser)
c.436C>T	c.C436T	p.(P146S)	p.(Pro146Ser)
c.437C>G	c.C437G	p.(P146R)	p.(Pro146Arg)
c.454T>C	c.T454C	p.(Y152H)	p.(Tyr152His)
c.454T>G	c.T454G	p.(Y152D)	p.(Tyr152Asp)
c.455A>G	c.A455G	p.(Y152C)	p.(Tyr152Cys)
c.466G>A	c.G466A	p.(A156T)	p.(Ala156Thr)
c.466G>T	c.G466T	p.(A156S)	p.(Ala156Ser)
c.467C>T	c.C467T	p.(A156V)	p.(Ala156Val)
c.471G>C or c.471G>T	c.G471C or c.G471T	p.(Q157H)	p.(Gln157His)
c.484T>G	c.T484G	p.(W162G)	p.(Trp162Gly)
c.493G>C	c.G493C	p.(D165H)	p.(Asp165His)
c.494A>G	c.A494G	p.(D165G)	p.(Asp165Gly)
c.496_497delinsTC	c.496_497delinsTC	p.(L166S)	p.(Leu166Ser)
c.496C>G	c.C496G	p.(L166V)	p.(Leu166Val)
c.[496C>G; 497T>G]	c.C496G/T497G	p.(L166G)	p.(Leu166Gly)
c.499C>G	c.C499G	p.(L167V)	p.(Leu167Val)
c.506T>C	c.T506C	p.(F169S)	p.(Phe169Ser)
c.511G>A	c.G511A	p.(G171S)	p.(Gly171Ser)
c.520T>C	c.T520C	p.(C174R)	p.(Cys174Arg)
c.520T>G	c.T520G	p.(C174G)	p.(Cys174Gly)
c.525C>G or c.525C>A	c.C525G or c.C525A	p.(D175E)	p.(Asp175Glu)
c.539T>G	c.T539G	p.(L180W)	p.(Leu180Trp)

Table 2: Amenable *GLA* Variants Based on the In Vitro Assay

DNA Change (Long)	DNA Change (Short)	Protein Change (1-letter Code)	Protein Change (3-letter Code)
c.540G>C or c.540G>T	c.G540C or c.G540T	p.(L180F)	p.(Leu180Phe)
c.548G>A	c.G548A	p.(G183D)	p.(Gly183Asp)
c.548G>C	c.G548C	p.(G183A)	p.(Gly183Ala)
c.550T>A	c.T550A	p.(Y184N)	p.(Tyr184Asn)
c.551A>C	c.A551C	p.(Y184S)	p.(Tyr184Ser)
c.551A>G	c.A551G	p.(Y184C)	p.(Tyr184Cys)
c.553A>G	c.A553G	p.(K185E)	p.(Lys185Glu)
c.559_564dup	c.559_564dup	p.(M187_S188dup)	p.(Met187_Ser188dup)
c.559A>G	c.A559G	p.(M187V)	p.(Met187Val)
c.560T>C	c.T560C	p.(M187T)	p.(Met187Thr)
c.561G>T or c.561G>A or c.561G>C	c.G561T or c.G561A or c.G561C	p.(M187I)	p.(Met187Ile)
c.567G>C or c.567G>T	c.G567C or c.G567T	p.(L189F)	p.(Leu189Phe)
c.572T>A	c.T572A	p.(L191Q)	p.(Leu191Gln)
c.581C>T	c.C581T	p.(T194I)	p.(Thr194Ile)
c.584G>T	c.G584T	p.(G195V)	p.(Gly195Val)
c.586A>G	c.A586G	p.(R196G)	p.(Arg196Gly)
c.593T>C	c.T593C	p.(I198T)	p.(Ile198Thr)
c.595G>A	c.G595A	p.(V199M)	p.(Val199Met)
c.596T>C	c.T596C	p.(V199A)	p.(Val199Ala)
c.596T>G	c.T596G	p.(V199G)	p.(Val199Gly)
c.599A>G	c.A599G	p.(Y200C)	p.(Tyr200Cys)
c.602C>A	c.C602A	p.(S201Y)	p.(Ser201Tyr)
c.602C>T	c.C602T	p.(S201F)	p.(Ser201Phe)
c.608A>T	c.A608T	p.(E203V)	p.(Glu203Val)
c.609G>C or c.609G>T	c.G609C or c.G609T	p.(E203D)	p.(Glu203Asp)
c.611G>T	c.G611T	p.(W204L)	p.(Trp204Leu)
c.613C>A	c.C613A	p.(P205T)	p.(Pro205Thr)
c.613C>T	c.C613T	p.(P205S)	p.(Pro205Ser)
c.614C>T	c.C614T	p.(P205L)	p.(Pro205Leu)
c.619T>C	c.T619C	p.(Y207H)	p.(Tyr207His)
c.620A>C	c.A620C	p.(Y207S)	p.(Tyr207Ser)
c.623T>G	c.T623G	p.(M208R)	p.(Met208Arg)
c.628C>T	c.C628T	p.(P210S)	p.(Pro210Ser)

Table 2: Amenable *GLA* Variants Based on the In Vitro Assay

DNA Change (Long)	DNA Change (Short)	Protein Change (1-letter Code)	Protein Change (3-letter Code)
c.629C>T	c.C629T	p.(P210L)	p.(Pro210Leu)
c.638A>G	c.A638G	p.(K213R)	p.(Lys213Arg)
c.638A>T	c.A638T	p.(K213M)	p.(Lys213Met)
c.640C>T	c.C640T	p.(P214S)	p.(Pro214Ser)
c.641C>T	c.C641T	p.(P214L)	p.(Pro214Leu)
c.643A>G	c.A643G	p.(N215D)	p.(Asn215Asp)
c.644A>G	c.A644G	p.(N215S)	p.(Asn215Ser)
c.[644A>G; 937G>T*]	c.A644G/G937T*	p.(N215S/D313Y*)	p.(Asn215Ser/Asp313Tyr*)
c.644A>T	c.A644T	p.(N215I)	p.(Asn215Ile)
c.646T>G	c.T646G	p.(Y216D)	p.(Tyr216Asp)
c.647A>G	c.A647G	p.(Y216C)	p.(Tyr216Cys)
c.655A>C	c.A655C	p.(I219L)	p.(Ile219Leu)
c.656T>A	c.T656A	p.(I219N)	p.(Ile219Asn)
c.656T>C	c.T656C	p.(I219T)	p.(Ile219Thr)
c.659G>A	c.G659A	p.(R220Q)	p.(Arg220Gln)
c.659G>C	c.G659C	p.(R220P)	p.(Arg220Pro)
c.662A>C	c.A662C	p.(Q221P)	p.(Gln221Pro)
c.671A>C	c.A671C	p.(N224T)	p.(Asn224Thr)
c.671A>G	c.A671G	p.(N224S)	p.(Asn224Ser)
c.673C>G	c.C673G	p.(H225D)	p.(His225Asp)
c.682A>C	c.A682C	p.(N228H)	p.(Asn228His)
c.683A>G	c.A683G	p.(N228S)	p.(Asn228Ser)
c.687T>A or c.687T>G	c.T687A or c.T687G	p.(F229L)	p.(Phe229Leu)
c.695T>C	c.T695C	p.(I232T)	p.(Ile232Thr)
c.712A>G	c.A712G	p.(S238G)	p.(Ser238Gly)
c.713G>A	c.G713A	p.(S238N)	p.(Ser238Asn)
c.716T>C	c.T716C	p.(I239T)	p.(Ile239Thr)
c.717A>G	c.A717G	p.(I239M)	p.(Ile239Met)
c.720G>C or c.720G>T	c.G720C or c.G720T	p.(K240N)	p.(Lys240Asn)
c.724A>G	c.A724G	p.(I242V)	p.(Ile242Val)
c.724A>T	c.A724T	p.(I242F)	p.(Ile242Phe)
c.725T>A	c.T725A	p.(I242N)	p.(Ile242Asn)
c.725T>C	c.T725C	p.(I242T)	p.(Ile242Thr)
c.728T>G	c.T728G	p.(L243W)	p.(Leu243Trp)

Table 2: Amenable *GLA* Variants Based on the In Vitro Assay

DNA Change (Long)	DNA Change (Short)	Protein Change (1-letter Code)	Protein Change (3-letter Code)
c.729G>C or c.729G>T	c.G729C or c.G729T	p.(L243F)	p.(Leu243Phe)
c.730G>A	c.G730A	p.(D244N)	p.(Asp244Asn)
c.730G>C	c.G730C	p.(D244H)	p.(Asp244His)
c.733T>G	c.T733G	p.(W245G)	p.(Trp245Gly)
c.740C>G	c.C740G	p.(S247C)	p.(Ser247Cys)
c.747C>G or c.747C>A	c.C747G or c.C747A	p.(N249K)	p.(Asn249Lys)
c.749A>C	c.A749C	p.(Q250P)	p.(Gln250Pro)
c.749A>G	c.A749G	p.(Q250R)	p.(Gln250Arg)
c.750G>C	c.G750C	p.(Q250H)	p.(Gln250His)
c.758T>C	c.T758C	p.(I253T)	p.(Ile253Thr)
c.758T>G	c.T758G	p.(I253S)	p.(Ile253Ser)
c.760-762delGTT or c.761-763del	c.760_762delGTT or c.761_763del	p.(V254del)	p.(Val254del)
c.769G>C	c.G769C	p.(A257P)	p.(Ala257Pro)
c.770C>G	c.C770G	p.(A257G)	p.(Ala257Gly)
c.770C>T	c.C770T	p.(A257V)	p.(Ala257Val)
c.772G>C or c.772G>A	c.G772C or c.G772A	p.(G258R)	p.(Gly258Arg)
c.773G>T	c.G773T	p.(G258V)	p.(Gly258Val)
c.776C>A	c.C776A	p.(P259Q)	p.(Pro259Gln)
c.776C>G	c.C776G	p.(P259R)	p.(Pro259Arg)
c.776C>T	c.C776T	p.(P259L)	p.(Pro259Leu)
c.779G>A	c.G779A	p.(G260E)	p.(Gly260Glu)
c.779G>C	c.G779C	p.(G260A)	p.(Gly260Ala)
c.781G>A	c.G781A	p.(G261S)	p.(Gly261Ser)
c.781G>C	c.G781C	p.(G261R)	p.(Gly261Arg)
c.781G>T	c.G781T	p.(G261C)	p.(Gly261Cys)
c.788A>G	c.A788G	p.(N263S)	p.(Asn263Ser)
c.790G>T	c.G790T	p.(D264Y)	p.(Asp264Tyr)
c.794C>T	c.C794T	p.(P265L)	p.(Pro265Leu)
c.800T>C	c.T800C	p.(M267T)	p.(Met267Thr)
c.805G>A	c.G805A	p.(V269M)	p.(Val269Met)
c.806T>C	c.T806C	p.(V269A)	p.(Val269Ala)
c.809T>C	c.T809C	p.(I270T)	p.(Ile270Thr)
c.810T>G	c.T810G	p.(I270M)	p.(Ile270Met)

Table 2: Amenable *GLA* Variants Based on the In Vitro Assay

DNA Change (Long)	DNA Change (Short)	Protein Change (1-letter Code)	Protein Change (3-letter Code)
c.811G>A	c.G811A	p.(G271S)	p.(Gly271Ser)
c.[811G>A; 937G>T*]	c.G811A/G937T*	p.(G271S/D313Y*)	p.(Gly271Ser/Asp313Tyr*)
c.812G>A	c.G812A	p.(G271D)	p.(Gly271Asp)
c.823C>G	c.C823G	p.(L275V)	p.(Leu275Val)
c.827G>A	c.G827A	p.(S276N)	p.(Ser276Asn)
c.829T>G	c.T829G	p.(W277G)	p.(Trp277Gly)
c.831G>T or c.831G>C	c.G831T or c.G831C	p.(W277C)	p.(Trp277Cys)
c.832A>T	c.A832T	p.(N278Y)	p.(Asn278Tyr)
c.835C>G	c.C835G	p.(Q279E)	p.(Gln279Glu)
c.838C>A	c.C838A	p.(Q280K)	p.(Gln280Lys)
c.840A>T or c.840A>C	c.A840T or c.A840C	p.(Q280H)	p.(Gln280His)
c.844A>G	c.A844G	p.(T282A)	p.(Thr282Ala)
c.845C>T	c.C845T	p.(T282I)	p.(Thr282Ile)
c.850A>G	c.A850G	p.(M284V)	p.(Met284Val)
c.851T>C	c.T851C	p.(M284T)	p.(Met284Thr)
c.860G>T	c.G860T	p.(W287L)	p.(Trp287Leu)
c.862G>C	c.G862C	p.(A288P)	p.(Ala288Pro)
c.866T>G	c.T866G	p.(I289S)	p.(Ile289Ser)
c.868A>C or c.868A>T	c.A868C or c.A868T	p.(M290L)	p.(Met290Leu)
c.869T>C	c.T869C	p.(M290T)	p.(Met290Thr)
c.870G>A or c.870G>C or c.870G>T	c.G870A or c.G870C or c.G870T	p.(M290I)	p.(Met290Ile)
c.871G>A	c.G871A	p.(A291T)	p.(Ala291Thr)
c.877C>A	c.C877A	p.(P293T)	p.(Pro293Thr)
c.881T>C	c.T881C	p.(L294S)	p.(Leu294Ser)
c.884T>G	c.T884G	p.(F295C)	p.(Phe295Cys)
c.886A>G	c.A886G	p.(M296V)	p.(Met296Val)
c.886A>T or c.886A>C	c.A886T or c.A886C	p.(M296L)	p.(Met296Leu)
c.887T>C	c.T887C	p.(M296T)	p.(Met296Thr)
c.888G>A or c.888G>T or c.888G>C	c.G888A or c.G888T or c.G888C	p.(M296I)	p.(Met296Ile)
c.893A>G	c.A893G	p.(N298S)	p.(Asn298Ser)
c.897C>G or c.897C>A	c.C897G or c.C897A	p.(D299E)	p.(Asp299Glu)
c.898C>T	c.C898T	p.(L300F)	p.(Leu300Phe)
c.899T>C	c.T899C	p.(L300P)	p.(Leu300Pro)

Table 2: Amenable *GLA* Variants Based on the In Vitro Assay

DNA Change (Long)	DNA Change (Short)	Protein Change (1-letter Code)	Protein Change (3-letter Code)
c.901C>G	c.C901G	p.(R301G)	p.(Arg301Gly)
c.902G>A	c.G902A	p.(R301Q)	p.(Arg301Gln)
c.902G>C	c.G902C	p.(R301P)	p.(Arg301Pro)
c.902G>T	c.G902T	p.(R301L)	p.(Arg301Leu)
c.907A>T	c.A907T	p.(I303F)	p.(Ile303Phe)
c.908T>A	c.T908A	p.(I303N)	p.(Ile303Asn)
c.911G>A	c.G911A	p.(S304N)	p.(Ser304Asn)
c.911G>C	c.G911C	p.(S304T)	p.(Ser304Thr)
c.919G>A	c.G919A	p.(A307T)	p.(Ala307Thr)
c.922A>G	c.A922G	p.(K308E)	p.(Lys308Glu)
c.924A>T or c.924A>C	c.A924T or c.A924C	p.(K308N)	p.(Lys308Asn)
c.925G>C	c.G925C	p.(A309P)	p.(Ala309Pro)
c.926C>T	c.C926T	p.(A309V)	p.(Ala309Val)
c.928C>T	c.C928T	p.(L310F)	p.(Leu310Phe)
c.931C>G	c.C931G	p.(L311V)	p.(Leu311Val)
c.935A>G	c.A935G	p.(Q312R)	p.(Gln312Arg)
c.936G>T or c.936G>C	c.G936T or c.G936C	p.(Q312H)	p.(Gln312His)
c.937G>T*	c.G937T*	p.(D313Y*)	p.(Asp313Tyr*)
c.[937G>T*; 1232G>A]	c.G937T*/G1232A	p.(D313Y*/G411D)	p.(Asp313Tyr*/Gly411Asp)
c.938A>G	c.A938G	p.(D313G)	p.(Asp313Gly)
c.946G>A	c.G946A	p.(V316I)	p.(Val316Ile)
c.947T>G	c.T947G	p.(V316G)	p.(Val316Gly)
c.950T>C	c.T950C	p.(I317T)	p.(Ile317Thr)
c.955A>T	c.A955T	p.(I319F)	p.(Ile319Phe)
c.956T>C	c.T956C	p.(I319T)	p.(Ile319Thr)
c.958A>C	c.A958C	p.(N320H)	p.(Asn320His)
c.959A>T	c.A959T	p.(N320I)	p.(Asn320Ile)
c.962A>G	c.A962G	p.(Q321R)	p.(Gln321Arg)
c.962A>T	c.A962T	p.(Q321L)	p.(Gln321Leu)
c.963G>C or c.963G>T	c.G963C or c.G963T	p.(Q321H)	p.(Gln321His)
c.964G>A	c.G964A	p.(D322N)	p.(Asp322Asn)
c.964G>C	c.G964C	p.(D322H)	p.(Asp322His)
c.966C>A or c.966C>G	c.C966A or c.C966G	p.(D322E)	p.(Asp322Glu)
c.967C>A	c.C967A	p.(P323T)	p.(Pro323Thr)

Table 2: Amenable *GLA* Variants Based on the In Vitro Assay

DNA Change (Long)	DNA Change (Short)	Protein Change (1-letter Code)	Protein Change (3-letter Code)
c.968C>G	c.C968G	p.(P323R)	p.(Pro323Arg)
c.973G>A	c.G973A	p.(G325S)	p.(Gly325Ser)
c.973G>C	c.G973C	p.(G325R)	p.(Gly325Arg)
c.978G>C or c.978G>T	c.G978C or c.G978T	p.(K326N)	p.(Lys326Asn)
c.979C>G	c.C979G	p.(Q327E)	p.(Gln327Glu)
c.980A>T	c.A980T	p.(Q327L)	p.(Gln327Leu)
c.983G>C	c.G983C	p.(G328A)	p.(Gly328Ala)
c.989A>G	c.A989G	p.(Q330R)	p.(Gln330Arg)
c.1001G>A	c.G1001A	p.(G334E)	p.(Gly334Glu)
c.1010T>C	c.T1010C	p.(F337S)	p.(Phe337Ser)
c.1012G>A	c.G1012A	p.(E338K)	p.(Glu338Lys)
c.1013A>T	c.A1013T	p.(E338V)	p.(Glu338Val)
c.1016T>A	c.T1016A	p.(V339E)	p.(Val339Glu)
c.1027C>A	c.C1027A	p.(P343T)	p.(Pro343Thr)
c.1028C>T	c.C1028T	p.(P343L)	p.(Pro343Leu)
c.1033T>C	c.T1033C	p.(S345P)	p.(Ser345Pro)
c.1046G>C	c.G1046C	p.(W349S)	p.(Trp349Ser)
c.1055C>G	c.C1055G	p.(A352G)	p.(Ala352Gly)
c.1055C>T	c.C1055T	p.(A352V)	p.(Ala352Val)
c.1061T>A	c.T1061A	p.(I354K)	p.(Ile354Lys)
c.1066C>G	c.C1066G	p.(R356G)	p.(Arg356Gly)
c.1066C>T	c.C1066T	p.(R356W)	p.(Arg356Trp)
c.1067G>A	c.G1067A	p.(R356Q)	p.(Arg356Gln)
c.1067G>C	c.G1067C	p.(R356P)	p.(Arg356Pro)
c.1072G>C	c.G1072C	p.(E358Q)	p.(Glu358Gln)
c.1073A>C	c.A1073C	p.(E358A)	p.(Glu358Ala)
c.1073A>G	c.A1073G	p.(E358G)	p.(Glu358Gly)
c.1074G>T or c.1074G>C	c.G1074T or c.G1074C	p.(E358D)	p.(Glu358Asp)
c.1076T>C	c.T1076C	p.(I359T)	p.(Ile359Thr)
c.1078G>A	c.G1078A	p.(G360S)	p.(Gly360Ser)
c.1078G>T	c.G1078T	p.(G360C)	p.(Gly360Cys)
c.1079G>A	c.G1079A	p.(G360D)	p.(Gly360Asp)
c.1082G>A	c.G1082A	p.(G361E)	p.(Gly361Glu)
c.1082G>C	c.G1082C	p.(G361A)	p.(Gly361Ala)

Table 2: Amenable *GLA* Variants Based on the In Vitro Assay

DNA Change (Long)	DNA Change (Short)	Protein Change (1-letter Code)	Protein Change (3-letter Code)
c.1084C>A	c.C1084A	p.(P362T)	p.(Pro362Thr)
c.1085C>T	c.C1085T	p.(P362L)	p.(Pro362Leu)
c.1087C>T	c.C1087T	p.(R363C)	p.(Arg363Cys)
c.1088G>A	c.G1088A	p.(R363H)	p.(Arg363His)
c.1102G>A	c.G1102A	p.(A368T)	p.(Ala368Thr)
c.1117G>A	c.G1117A	p.(G373S)	p.(Gly373Ser)
c.1124G>A	c.G1124A	p.(G375E)	p.(Gly375Glu)
c.1139C>T	c.C1139T	p.(P380L)	p.(Pro380Leu)
c.1153A>G	c.A1153G	p.(T385A)	p.(Tyr385Ala)
c.1168G>A	c.G1168A	p.(V390M)	p.(Val390Met)
c.1172A>C	c.A1172C	p.(K391T)	p.(Lys391Thr)
c.1184G>A	c.G1184A	p.(G395E)	p.(Gly395Glu)
c.1184G>C	c.G1184C	p.(G395A)	p.(Gly395Ala)
c.1192G>A	c.G1192A	p.(E398K)	p.(Glu398Lys)
c.1202_1203insGACTTC	c.1202_1203insGACTTC	p.(T400_S401dup)	p.(Thr400_Ser401dup)
c.1208T>C	c.T1208C	p.(L403S)	p.(Leu403Ser)
c.1225C>A	c.C1225A	p.(P409T)	p.(Pro409Thr)
c.1225C>G	c.C1225G	p.(P409A)	p.(Pro409Ala)
c.1225C>T	c.C1225T	p.(P409S)	p.(Pro409Ser)
c.1228A>G	c.A1228G	p.(T410A)	p.(Thr410Ala)
c.1229C>T	c.C1229T	p.(T410I)	p.(Thr410Ile)
c.1232G>A	c.G1232A	p.(G411D)	p.(Gly411Asp)
c.1234A>C	c.A1234C	p.(T412P)	p.(Thr412Pro)
c.1235C>A	c.C1235A	p.(T412N)	p.(Thr412Asn)
c.1235C>T	c.C1235T	p.(T412I)	p.(Thr412Ile)
c.1253A>G	c.A1253G	p.(E418G)	p.(Glu418Gly)
c.1261A>G	c.A1261G	p.(M421V)	p.(Met421Val)

* Based on available published data, the *GLA* variant c.937G>T, (p.(D313Y)) is considered benign (not causing Fabry disease). Consultation with a clinical genetics professional is strongly recommended in patients with Fabry disease who have this *GLA* variant as additional evaluations may be indicated.

If a *GLA* variant does not appear in Table 2, it is either non-amenable (if tested) or has not been tested for in vitro amenability. For further information, please contact Amicus Medical Information at 1-877-4AMICUS or medinfousa@amicusrx.com.

12.2 Pharmacodynamics

In Study 1, 31 of 50 patients with amenable *GLA* variants (18 on GALAFOLD, 13 on placebo) had lyso-Gb₃ assessments available after 6 months of treatment. The median change from baseline to month 6 in plasma lyso-Gb₃ (nmol/L) was -2.37 (range -69.7, 1.8) in patients on GALAFOLD and 0.53 (range -21.5, 16.3) in patients on placebo. In the open-label treatment phase of Study 1, the 13 patients who were initially on placebo for 6 months and who switched to GALAFOLD for another 6 months had a median change in lyso-Gb₃ (nmol/L) of -2.72 (range -61.1, -0.3). The 18 patients who were treated with GALAFOLD for 6 months and then continued GALAFOLD in the open-label treatment phase of Study 1 for an additional 6 months had no further changes in plasma lyso-Gb₃.

In Study 2, 46 of 56 patients with amenable *GLA* variants (31 on GALAFOLD, 15 on enzyme replacement therapy (ERT)) had lyso-Gb₃ assessments available after 18 months of treatment. The median change from baseline to month 18 in plasma lyso-Gb₃ (nmol/L) was 0.53 (range -2.27, 28.3) in patients on GALAFOLD and -0.03 (range -11.9, 2.57) in patients on ERT.

Cardiac Electrophysiology

At a dose approximately 8 times the recommended dose, GALAFOLD did not prolong the QT interval to any clinically relevant extent.

12.3 Pharmacokinetics

Absorption

Following a single GALAFOLD oral dose of 123 mg, the absolute bioavailability (AUC) of migalastat was approximately 75% and the time to peak plasma concentration (t_{max}) was approximately 3 hours. Plasma migalastat exposure (AUC_{0-∞} and C_{max}) demonstrated dose-proportional increases at oral doses from 75 mg to 1250 mg (doses from 0.5 to 8.3-fold of the approved recommended dosage). Migalastat does not accumulate following administration of 123 mg GALAFOLD every other day.

Effect of Food: Administration of GALAFOLD one hour before a high-fat (850 calories; 56% from fat) or light meal (507 calories; 30% from fat), or one hour after a light meal, reduced the mean migalastat AUC_{0-∞} by 37% to 42% and C_{max} by 15% to 39% compared to the fasting state [see *Dosage and Administration (2.2)*].

Distribution

The apparent volume of distribution (V_z/F) of migalastat in Fabry patients was approximately 89 L (range: 77 to 133 L) at steady state. There was no detectable plasma protein binding following administration of [¹⁴C]-migalastat in the concentration range between 1 to 100 microM.

Elimination

Metabolism: Based upon in vivo data, migalastat is a substrate for uridine diphosphate glucuronosyltransferase (UDPGT), a minor elimination pathway.

Excretion: In a mass balance study in healthy male subjects, following oral administration of 123 mg [¹⁴C]-migalastat, approximately 77% of the total radiolabeled dose was recovered in

urine and 20% of the total radiolabeled dose was recovered in feces with an overall total recovery of 98% within 96 hours post-dose. In urine, unchanged migalastat accounted for 80% of the radioactivity, which equates to 62% of the administered dose. In feces, unchanged migalastat was the only drug-related component. In plasma, unchanged migalastat accounted for approximately 77% of the plasma radioactivity and three dehydrogenated O-glucuronide conjugated metabolites, M1 to M3, together accounted for approximately 13% of the plasma radioactivity, none of which comprised more than 6% of the radiolabeled dose. Approximately 9% of the total radioactivity in plasma was unassigned.

Following a single oral dose of 123 mg GALAFOLD, migalastat is cleared from plasma with a mean half-life ($t_{1/2}$) of approximately 4 hours and apparent clearance of 12.5 L/hr.

Specific Populations

Male and Female Patients: The pharmacokinetic characteristics of migalastat were not significantly different between healthy male and female subjects or patients with Fabry disease.

Racial or Ethnic Groups: Clinical data indicate no ethnic differences in patient populations studied with migalastat.

Patients with Renal Impairment: In a single-dose study in subjects with varying degrees of renal impairment, exposure to migalastat (AUC) was increased by 1.2-, 1.8-, and 4.3-fold in subjects with mild (eGFR 60 to 90 mL/min/1.73 m²), moderate (eGFR 30 to 59 mL/min/1.73 m²), and severe renal impairment (eGFR less than 30 mL/min/1.73 m²), respectively, while the C_{max} remained unchanged with severity of renal impairment [see *Use in Specific Populations (8.6)*].

Drug Interaction Studies

In Vitro Studies

Migalastat is not a known inhibitor or inducer of cytochrome P450 (CYP450) enzymes, nor is it an inhibitor of BCRP, MDR1, P-glycoprotein (P-gp), or BSEP human efflux transporters, or OATP1B1, OATP1B3, OAT1, OAT3, OCT1, OCT2, MATE1, or MATE2-K human uptake transporters. Migalastat is not a substrate of P-gp, BCRP, MDR1 or MATE1, MATE2-K, OAT1, OAT3, or OCT2. Migalastat showed low affinity for SGLT1, as both a substrate and an inhibitor, and showed no activity for SGLT2.

Clinical Studies: Effects of other Drugs on Migalastat

Co-administration of 190 mg caffeine reduced the mean migalastat AUC_{0-∞} by 55% and C_{max} by 60% compared to without caffeine co-administration. The t_{max} of migalastat was not affected by co-administration of caffeine. No clinically significant pharmacokinetic changes were observed for migalastat when co-administered with sucrose, aspartame or acesulfame potassium [see *Dosage and Administration (2.2), Drug Interactions (7.1)*].

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis

The carcinogenic potential of migalastat was assessed in a 2-year study in rats and a 26-week study in Tg.rasH2 mice. In the 2-year rat study, migalastat was not tumorigenic at oral doses of

up to 600 mg/kg twice daily (24 times the recommended dose based on AUC). In the 26-week study in Tg.rasH2 mice, migalastat was not tumorigenic at oral doses of up to 1000 mg/kg/day in males and 500 mg/kg/day in females.

Mutagenesis

Migalastat was negative in the bacterial mutagenicity (Ames) assay, in vitro cell mutation assay in L5178Y mouse lymphoma TK^{+/-} cells, and in vivo micronucleus assay in rats.

Impairment of Fertility

Oral administration of up to 12.5 mg/kg migalastat twice daily in rats (equivalent to the human AUC at the recommended dose) produced a significant decrease in male fertility. This effect was completely reversed after four weeks of recovery. Female fertility was not affected.

14 CLINICAL STUDIES

Study AT1001-011 (referred to as Study 1; NCT00925301) included a 6-month randomized, double-blind, placebo-controlled phase followed by a 6-month open-label treatment phase and a 12-month open-label extension phase. Patients received 123 mg GALAFOLD orally every other day taken without consuming food 2 hours before and 2 hours after each dose to give a minimum 4-hour fast [see *Dosage and Administration (2.2)*].

A total of 67 patients with Fabry disease who were naïve to GALAFOLD and enzyme replacement therapy (ERT) or were previously treated with ERT (agalsidase beta or non-U.S. approved agalsidase alfa) and had been off ERT for at least 6 months were randomized in a 1:1 ratio to receive either GALAFOLD 123 mg every other day or placebo for the first 6 months. In the second 6 months, all patients were treated with GALAFOLD.

Results – Patients with Fabry Disease with Amenable *GLA* Variants

Of the 67 enrolled patients, 50 patients (32 females, 18 males) had amenable *GLA* variants based on the in vitro amenability assay [see *Clinical Pharmacology (12.1)*]. The median age of this population was 45 years (range from 16 to 68 years old); 65 were White (97%), and 2 were other racial group (3%). The major efficacy outcome measure of the average number of GL-3 inclusions per kidney interstitial capillary (KIC) in renal biopsy samples was assessed by light microscopy before and after treatment.

Efficacy was evaluated after 6 months of treatment in 45 of 50 patients with amenable *GLA* variants (29 females and 16 males) and with available histology data both at baseline and month 6. Of the 45 evaluable patients, 25 received GALAFOLD (18 females, 7 males) and 20 received placebo (11 females, 9 males). The proportion of patients with $\geq 50\%$ reduction from baseline in the average number of GL-3 inclusions per KIC and the median changes from baseline in the average number of GL-3 inclusions per KIC after 6 months of treatment in Study 1 are shown in Table 3.

Table 3: Changes from Baseline to Month 6 in Average Number of GL-3 Inclusions per KIC in Adults with Fabry Disease with Amenable *GLA* Variants in Study 1 (N = 45)

	GALAFOLD	Placebo
	n/N (%) with ≥ 50% reduction Median change from baseline (range)	n/N (%) with ≥ 50% reduction Median change from baseline (range)
All patients (N = 45)	13/25 (52%) -0.04 (-1.94, 0.26)	9/20 (45%) -0.03 (-1.00, 1.69)
Females (N = 29)	8/18 (44%) -0.02 (-0.46, 0.26)	5/11 (46%) -0.03 (-0.35, 0.10)
Males (N = 16)	5/7 (71%) -1.10 (-1.94, -0.02)	4/9 (44%) -0.03 (-1.00, 1.69)
Patients with baseline GL-3 ≥ 0.3 (N = 17; 9 males, 8 females)	7/9 (78%) -0.91 (-1.94, 0.19)	2/8 (25%) -0.02 (-1.00, 1.69)
Patients with baseline GL-3 < 0.3 (N = 28; 7 males, 21 females)	6/16 (38%) -0.02 (-0.10, 0.26)	7/12 (58%) -0.05 (-0.16, 0.14)

Results - Patients with Fabry Disease with Non-Amenable *GLA* Variants

Of the 67 enrolled patients in Study 1, 17 patients had non-amenable *GLA* variants. These patients had no change from baseline in the average number of GL-3 inclusions per KIC after 6 months of treatment.

16 HOW SUPPLIED/STORAGE AND HANDLING

GALAFOLD capsules are supplied as 123 mg migalastat, size “2” capsules with an opaque blue cap and opaque white body filled with white to pale brown powder and imprinted with “A1001” in black ink.

GALAFOLD capsules are packaged as two 7-count capsules blister strips with aluminum foil lidding encased in cardboard blister cards providing 14 capsules per wallet pack that supplies the drug product for 4 weeks (28 days).

Wallet pack containing 14 GALAFOLD capsules NDC 71904-100-01.

Store at USP Controlled Room Temperature of 20° to 25°C (68° to 77°F). Excursions are permitted between 15° to 30°C (59° to 86°F).

Store in the original packaging to protect from moisture.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information and Instructions for Use).

Administration

Advise the patient:

- To take GALAFOLD once every other day at the same time of day and do not take on consecutive days [*see Dosage and Administration (2.2)*].
- Swallow capsule whole. Do not cut, crush, or chew the capsule [*see Dosage and Administration (2.2)*].
- Take GALAFOLD on an empty stomach. Do not consume food or caffeine at least 2 hours prior to and 2 hours after taking GALAFOLD to give a minimum 4 hour fast [*see Dosage and Administration (2.2)*].
- Water (plain, flavored, or sweetened), fruit juices without pulp, and caffeine-free carbonated beverages can be consumed during the fasting period [*see Dosage and Administration (2.2)*].
- If the GALAFOLD dose is missed, take the missed dose if it is within 12 hours of the time that the dose should have been taken. If more than 12 hours have passed, take GALAFOLD at the next planned dosing day and time following the original every-other-day dosing schedule [*see Dosage and Administration (2.3)*].
- To inform the healthcare provider of all medicines the patient takes, including prescription and over-the-counter medicines, vitamins, and herbal supplements [*see Drug Interactions (7.1)*].

Pregnancy and Lactation Study

Inform the patient and/or caregiver that there is a study that collects data on pregnant women with Fabry disease, and data on the effects of GALAFOLD on lactation in women with Fabry disease and their neonates and infants up to 1 year of age who are exposed through breast milk. Encourage the patient and/or caregiver to participate and state that participation is voluntary [*see Use in Specific Populations (8.1)*].

Manufactured for:

Amicus Therapeutics US, LLC

3675 Market Street

Philadelphia, PA 19104

GALAFOLD is a registered trademark of Amicus Therapeutics, Inc.

PATIENT INFORMATION
GALAFOLD® (GAL-a-fold)
(migalastat)
capsules

What is GALAFOLD?

GALAFOLD is a prescription medicine used to treat adults with Fabry disease who have a certain genetic change (variant) in the galactosidase alpha gene (*GLA*) that is responsive (amenable) to GALAFOLD.

It is not known if GALAFOLD is safe and effective in children.

Before taking GALAFOLD, tell your healthcare provider about all of your medical conditions, including if you:

- have kidney problems.
- are pregnant or plan to become pregnant. It is not known if GALAFOLD will harm your unborn baby.
- are breastfeeding or plan to breastfeed. GALAFOLD may pass into your breast milk. Talk to your healthcare provider about the best way to feed your baby if you take GALAFOLD.

Pregnancy and Breastfeeding Exposure Study. There is a study that collects information on pregnant women with Fabry disease and women with Fabry disease who take GALAFOLD and breastfeed a baby up to 1 year of age. The purpose of this study is to collect information about the health of you and your baby. Talk to your healthcare provider about how you can take part in this study.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Especially tell your healthcare provider if you take medicines or supplements containing caffeine as these medicines or supplements may affect how GALAFOLD works.

Know the medicines you take. Keep a list of them and show it to your healthcare provider and pharmacist each time you get a new medicine.

How should I take GALAFOLD?

- Read the Instructions for Use at the end of this Patient Information leaflet for detailed instructions about the right way to take GALAFOLD.
- Take 1 GALAFOLD capsule every **other** day at the same time of day. **Do not** take GALAFOLD two days in a row.
- Swallow the GALAFOLD capsule whole. **Do not** cut, crush, or chew the GALAFOLD capsule.
- Take GALAFOLD on an empty stomach.
- **Do not** eat food, or take or drink any product that contains caffeine at least 2 hours before **and** 2 hours after taking GALAFOLD to give a minimum 4 hour fast.
- You may drink water (plain, flavored, or sweetened), fruit juices without pulp, and caffeine-free carbonated beverages during this time when you cannot eat.
- If you miss a dose of GALAFOLD, take the missed dose of GALAFOLD within 12 hours of your normal schedule. If more than 12 hours have passed, do not make up the missed dose. Take your next dose of GALAFOLD at your next scheduled day and time following your original every-other-day dosing schedule.
 - For example, if you miss a dose that you would normally take at 8:00 AM, then you should take that dose before 8:00 PM on the same day. If you do not take the missed dose before 8:00 PM on the same day, you should take your next dose at 8:00 AM on your next scheduled dosing day.

What are the possible side effects of GALAFOLD?

The most common side effects of GALAFOLD include:

- headache
- stuffy or runny nose and sore throat
- urinary tract infection
- nausea
- fever

These are not all the possible side effects of GALAFOLD.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

You may also report side effects to Amicus Therapeutics at 1-877-426-4287.

How should I store GALAFOLD?

- Store GALAFOLD at room temperature between 68°F to 77°F (20°C to 25°C).
- Keep GALAFOLD capsules in the blister card they come in to protect from moisture.

Keep GALAFOLD and all medicines out of the reach of children.

General information about the safe and effective use of GALAFOLD.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use GALAFOLD for a condition for which it was not prescribed. Do not give GALAFOLD to other people, even if they have the same symptoms that you have. It may harm them. You can ask your pharmacist or healthcare provider for information about GALAFOLD that is written for health professionals.

What are the ingredients in GALAFOLD?

Active ingredient: migalastat hydrochloride

Inactive ingredients: magnesium stearate and pregelatinized starch.

Capsule shells contain gelatin, indigotine - FD&C Blue 2, and titanium dioxide.

The black ink contains black iron oxide, potassium hydroxide, and shellac.

Manufactured for: Amicus Therapeutics US, LLC, 3675 Market Street, Philadelphia, PA 19104

GALAFOLD is a registered trademark of Amicus Therapeutics, Inc.

For more information, go to www.GALAFOLD.com or call 1-877-426-4287.

This Patient Information has been approved by the U.S. Food and Drug Administration.

Revised: June 2023

**INSTRUCTIONS FOR USE
GALAFOLD® (GAL-a-fold)
(migalastat)
capsules**

This Instructions for Use contains information on how to take GALAFOLD. Read this Instructions for Use before you start taking GALAFOLD and each time you get a refill. There may be new information. This information does not take the place of talking to your healthcare provider about your medical condition or treatment.

Important Information You Need to Know Before Taking GALAFOLD.

- Take 1 GALAFOLD capsule every **other** day at the same time of day. **Do not** take GALAFOLD two days in a row.
- Swallow the GALAFOLD capsule whole. **Do not** cut, crush, or chew the GALAFOLD capsule.
- Take GALAFOLD on an empty stomach.
- **Do not** eat food, or take or drink any product that contains caffeine at least 2 hours before **and** 2 hours after taking GALAFOLD to give a minimum 4 hour fast.
- You may drink water (plain, flavored, or sweetened), fruit juices without pulp, and caffeine-free carbonated beverages during this time when you cannot eat.

How to remove a capsule:

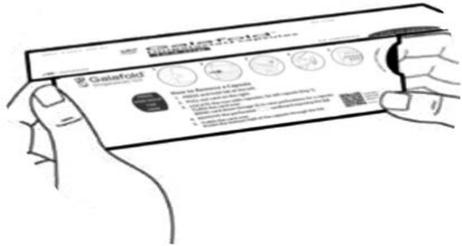
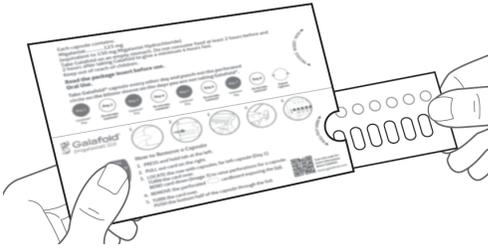
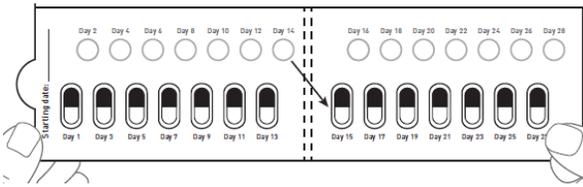
<p>Figure A</p> 	<p>Step 1. Remove the adhesive seal holding the cover.</p> <p>Lift the cover of your GALAFOLD carton (See Figure A).</p>
<p>Figure B. Opened carton</p> 	<p>Step 2. Press and hold down the purple tab with your thumb on the left side of the carton (See Figure B), and continue to Step 3.</p>

Figure C



Step 3. Grasp the tab on the **right** side of the blister card where it says, “PULL OUT HERE” and pull out the folded blister card (See Figure C).

Figure D. Front of the blister card



Step 4. Unfold the blister card (See Figure D).

Taking GALAFOLD capsules:

Each GALAFOLD blister card contains 14 GALAFOLD capsules (enough for 28 days of treatment with GALAFOLD) and 14 white cardboard circles. The white cardboard circles are to remind you to take GALAFOLD every **other** day.

The arrow directs you to begin the next 2 weeks of treatment after Day 14 (See Figure E).

Figure E. Front of the blister card

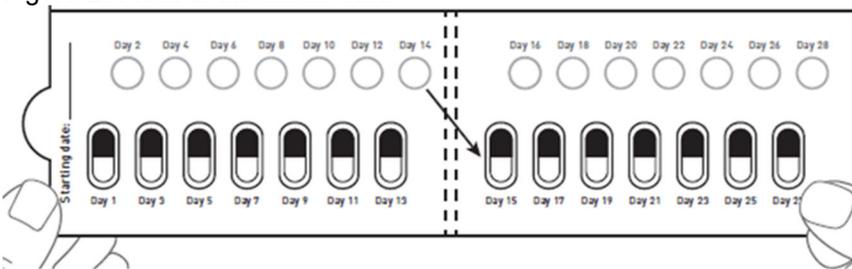
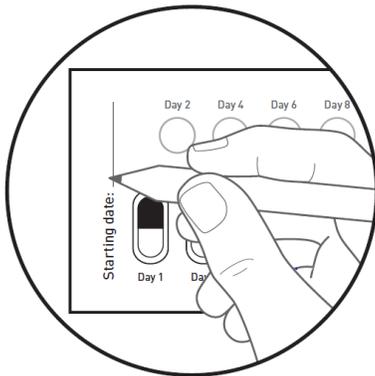
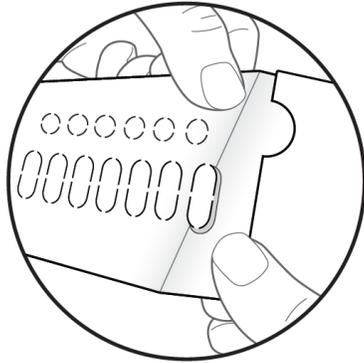


Figure F. Front of the blister card



Step 5. On your first day of taking GALAFOLD from a new blister card, record the date on the blister card next to “Starting date:” (See Figure F).

Figure G. Back of the blister card



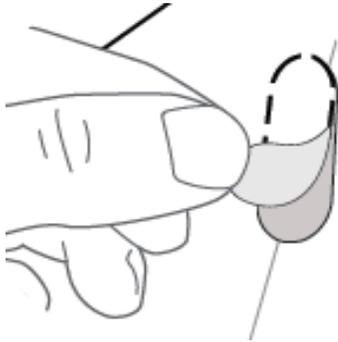
Step 6. Locate the GALAFOLD capsule to remove for the dosing day.

Turn the blister card **over** to show the back of the card.

Bend the card as shown (See Figure G).

Note: Bending the blister card helps raise the oval perforated cardboard.

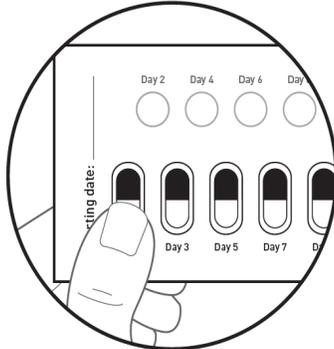
Figure H. Back of the blister card



Step 7. Remove the oval perforated cardboard (See Figure H).

Note: After removing the oval cardboard, the white backing of the foil may be present, which is ok.

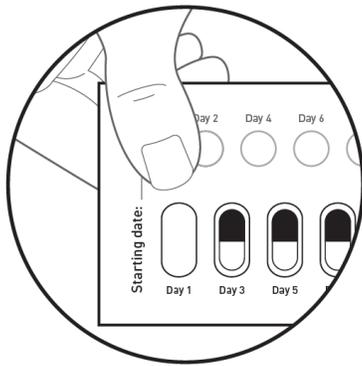
Figure I. Front of the blister card



Step 8. Turn the blister card over to show the front of the card.

Push the GALAFOLD capsule out (See Figure I).

Figure J. Front of the blister card



Step 9. On the next day, move to the perforated white cardboard circle on the **top row**. Press down on the white cardboard circle to remove it (See Figure J).

Note: Removing this white cardboard circle will help you remember which day you do not take GALAFOLD.

Take 1 GALAFOLD capsule every **other** day.

Fold the blister card, and slide it back into the carton after each use.

Change (alternate) each day between taking the GALAFOLD capsule and removing the perforated white cardboard circle until you reach Day 28. Start a new blister card when you are finished with Day 28.

How should I store GALAFOLD?

- Store GALAFOLD at room temperature between 68°F to 77°F (20°C to 25°C).
- Keep GALAFOLD capsules in the blister card they come in to protect from moisture.

Keep GALAFOLD and all medicines out of the reach of children.

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