

## Product datasheet for PH301304

### Galactosidase alpha (GLA) (NM\_000169) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	GLA MS Standard C13 and N15-labeled recombinant protein (NP_000160)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201304
Predicted MW:	48.8 kDa
Protein Sequence:	>RC201304 protein sequence Red=Cloning site Green=Tags(s)  MQLRNPELHLGCALALRFLALVSWDIPGARALDNLARTPTMGWLHVERFMCNLDQCQEEPDCISEKLFM EMAELMVSEGWKDAGYEYLCIDDCWMAQRDSEGRQADPQRFPHGIRQLANYVHSGKGLKGIYADVGNK TCAGFPGSFGYYDIDAQTFADWGVDLLKFDGICYDSLENLADGYKHMSLALNRTGRSIVYSCEWPLYMWP FQKPNYTEIRQYCNHWRNFADIDDSWKSIKSILDWTSFNQERIVDVAGPGGWNDPDMLVIGNFGLSWNQQ VTQMALWAIMAAPLFMSNDLRHISPQAKALLQDKDVIAINQDPLGKQGYQLRQGDNFVWERPLSGLAWA VAMINRQEIGGPRSYTIAVASLGKGVACNPACFITQLLPVVRKLGFEYWT SRLRSHINPTGTVLLQLENT MQMSLKDLL  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000160</u>
RefSeq Size:	1418
RefSeq ORF:	1288
Synonyms:	GALA



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Locus ID: 2717

UniProt ID: [P06280](#), [Q53Y83](#)

Cytogenetics: Xq22.1

**Summary:** This gene encodes a homodimeric glycoprotein that hydrolyses the terminal alpha-galactosyl moieties from glycolipids and glycoproteins. This enzyme predominantly hydrolyzes ceramide trihexoside, and it can catalyze the hydrolysis of melibiose into galactose and glucose. A variety of mutations in this gene affect the synthesis, processing, and stability of this enzyme, which causes Fabry disease, a rare lysosomal storage disorder that results from a failure to catabolize alpha-D-galactosyl glycolipid moieties. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Galactose metabolism, Glycerolipid metabolism, Glycosphingolipid biosynthesis - globo series, Lysosome, Sphingolipid metabolism

### Product images:



Coomassie blue staining of purified GLA protein (Cat# [TP301304]). The protein was produced from HEK293T cells transfected with GLA cDNA clone (Cat# [RC201304]) using MegaTran 2.0 (Cat# [TT210002]).