Recombinant Full Length Human GLA Protein, GST-tagged

Cat. No. GLA-5307HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GLA full-length ORF (AAH02689, 1 a.a. - 429 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	429 amino acids
Description	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
Molecular Mass	72.93 kDa
AA Sequence	MQLRNPELHLGCALALRFLALVSWDIPGARALDNGLARTPTMGWLHWERFMCNLD CQEEPDSCISEKLFMEMAELMVSEGWKDAGYEYLCIDDCWMAPQRDSEGRLQADP QRFPHGIRQLANYVHSKGLKLGIYADVGNKTCAGFPGSFGYYDIDAQTFADWGVDL LKFDGCYCDSLENLADGYKHMSLALNRTGRSIVYSCEWPLYMWPFQKPNYTEIRQY CNHWRNFADIDDSWKSIKSILDWTSFNQERIVDVAGPGGWNDPDMLVIGNFGLSWN QQVTQMALWAIMAAPLFMSNDLRHISPQAKALLQDKDVIAINQDPLGKQGYQLRQG

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	DNFEVWERPLSGLAWAVAMINRQEIGGPRSYTIAVASLGKGVACNPACFITQLLPVK RKLGFYEWTSRLRSHINPTGTVLLQLENTMQMSLKDLL
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	GLA galactosidase, alpha [Homo sapiens]
Official Symbol	GLA
Synonyms	GLA; galactosidase, alpha; alpha-galactosidase A; GALA; melibiase; alpha-gal A; agalsidase alfa; alpha-D-galactosidase A; alpha-D-galactoside galactohydrolase 1;
Gene ID	2717
mRNA Refseq	NM_000169
Protein Refseq	NP_000160
MIM	300644

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UniProt ID	P06280

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