

Recombinant Human GLA Protein, His-tagged

Cat. No. GLA-380H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GLA, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	GLA, also known as alpha-galactosidase A, is homodimeric glycoprotein that hydrolyses the terminal alpha-galactosyl moieties from glycolipids and glycoproteins. 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.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	46.4kDa (406aa)40-57KDa (SDS-PAGE under reducing conditions.)
AA Sequence	LDNGLARTPT MGWLHWERFM CNLDCQEEP SCISEKLFME MAELMVSEGW KDAGYEYLCI DDCWMAPQRD SEGRLQADPQ RFPHGIRQLANYVHSGKGLKL GIYADVGNKT CAGFPGSFGY YDIDAQTFAD WGVDLLKFDG CYCDSLENLA DGYKHMSLAL NRTGRSIVYS CEWPLYMWPFQKPNYTEIRQ YCNHWRNFAD IDDSWKSIS ILDWTSFNQE RIVDVAGPGG WNDPDMLVIG NFGLSWNQVQV TQMALWAIMA APLFMSNDLRHISPQAKALL QDKDVIINQ DPLGKQGYQL RQGDNFEVWE RPLSGLAWAV AMINRQEIGG PRSYTIAVAS LGKGVACNPA

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	CFITQLLPVK RKLGFYEWTS RLRSHINPTG TVLLQLENTM QMSLKDLLVE HHHHHH
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Absorbance at 280nm)
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
UniProt ID	P06280

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Chromosome Location	Xq21.3-q22
Pathway	Galactose metabolism, organism-specific biosystem; Galactose metabolism, conserved biosystem; Glycerolipid metabolism, organism-specific biosystem; Glycerolipid metabolism, conserved biosystem; Glycosphingolipid biosynthesis - globo series, organism-specific biosystem; Glycosphingolipid biosynthesis - globo series, conserved biosystem; Glycosphingolipid metabolism, organism-specific biosystem;
Function	alpha-galactosidase activity; alpha-galactosidase activity; alpha-galactosidase activity; catalytic activity; cation binding; galactoside binding; hydrolase activity; hydrolase activity, hydrolyzing O-glycosyl compounds; protein binding; protein homodimerization activity; raffinose alpha-galactosidase activity; receptor binding;

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