

Recombinant Full Length Human GLA Protein, GST-tagged

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

SPECIFICATION

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|-------------------------|---|
| 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 CQEEDSCISEKLFMEMAELMVSEGWKDAGYEYLCIDDCWMAPQRDSEGRLQADP QRFPHGIRQLANYVHSGKGLKLGIVADVGNKTCAGFPGSFGYYDIDAQTFADWGVDL LKFDGCYCDLENLADGYKHMSLALNRTGRSIVYSCEWPLYMWPFKPNYTEIRQY CNHWRNFADIDDSWKSISILDWTSFNQERIVDVAGPGGWNDPDMVLVIGNFGLSWN QQVTQMALWAIMAAPLFMSNDLRHISPQAKALLQDKDVIAINQDPLGKQGYQLRQG |

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DNFEVWERPLSGLAWAVAMINRQEIGGPRSYTIAVASLGKGVACNPACFITQLLPVK
RKLGFYEWTSRLRSHINPTGTVLLQLENTMQMSLKDLL

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| 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

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|------------------------|---|
| 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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