

Product information

Alpha-galactosidase A, 32-429aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3225

NCBI Accession No.: NP_000160

Synonyms: GLA, GALA

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. Recombinant human GLA, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight: 46.4kDa (406aa)

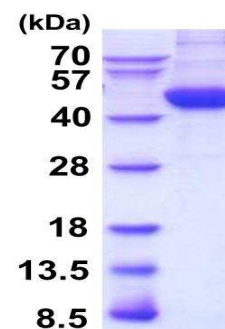
40-57KDa (SDS-PAGE under reducing conditions.)

Predicted N terminal: Leu32

Purity: > 90% by SDS – PAGE.

Concentration: 0.5mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)



15% SDS-PAGE (3µg)

Sequences of amino acids:

LDNGLARTPT MGWLHWERFM CNLDCQEEPD SCISEKLFME MAELMVSEGW KDAGYEYLCI DDCWMAQQRD SEGRQLQADPQ RFPHGIRQLA
 NYVHSKGLKL GIYADVGNKT CAGFPGSFGY YDIDAQTFAD WGVLLKFDG CYCDSLENLA DGYKHMSLAL NRTGRSIVYS CEWPLYMWPF
 QKPNYTEIRQ YCNHWRNFAD IDDSWKS IKS ILDWTSEFNQE RIVDVAGPGG WNDPDMVLVIG NFGLSWNQVQV TQMALWAIMA APLFMSNDLR
 HISPQAKALL QDKDVIAINQ DPLGKQGYQL RQGDNFEVWE RPLSGLAWAV AMINRQEIGG PRSYTIIVAS LGKGVACNPA CFITQLLPVK
 RKLGFYEWTS RLRSHINPTG TVLLQLENTM QMSLKDLLVE HHHHHH

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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Product information

General references:

Garman S.C., *et al.* (2004) *J. Mol. Biol.* 337:319-335.

Sakuraba H., *et al.* (1990) *Am. J. Hum. Genet.* 47:784-789.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

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