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**Product Data Sheet**


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Product Name: GLA Human  
 Cat. No.: GP21913  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Alpha-galactosidase A; Alpha-D-galactosidase A; Alpha-D-galactoside galactohydrolase; Melibiase; GLA; GALA.		
Amino Acid Sequence	LDNGLARTPT MGWLHWERFM CNLDCQEED SCISEKLFME MAELMVSEGWKDAGYEYLCI DDCWMAPQRD SEGRLQADPQ RFPHGIRQLA NYVHSKGLKL GIYADVGNKT CAGFPGSFGYYDIDAQTFAD WGVDLLKFDG CYCDSLENLA DGYKHMSLAL NRTGRSIVYS CEWPLYMWPF QKPNYTEIRQYCNHWRFAD IDDSWKSIS ILDWTSFNQE RIVDVAGPGG WNDPDMLVIG NFGLSWNQQV TQMALWAIMAAPLFMSNDLR HISPQAKALL QDKDVIAINQ DPLGKQGYQL RQGDNFEVWE RPLSGLAWAV AMINRQEIGGPRSYTIAVAS LGKGVACNPA CFITQLLPVK RKLGFYEWTS RLRSHINPTG TVLLQLENTM QMSLKDLLVEHHHHHH.		
Formulation	GLA protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

**Introduction**

Alpha-galactosidase A (GLA) is a homodimeric glycoprotein which hydrolyses the terminal alpha-galactosyl moieties from glycolipids and glycoproteins. GLA catalyzes the hydrolysis of melibiose into galactose and glucose. Various mutations in the GLA gene affect the synthesis, processing, and stability of this enzyme, which causes Fabry disease (a rare lysosomal storage disorder which results from a failure to catabolize alpha-D-galactosyl glycolipid moieties).

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

GLA produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 406 amino acids (32-429 a.a.) and having a molecular mass of 46.4kDa (Migrates at 40-57kDa on SDS-PAGE under reducing conditions). GLA is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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