

# Recombinant human alpha-Galactosidase A/GLA protein

Catalog Number: ATGP3225

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

32-429aa

### UniProt No.

P06280

### NCBI Accession No.

NP\_000160

### Alternative Names

GLA, GALA

## PRODUCT SPECIFICATION

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### Molecular Weight

46.4 kDa (406aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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-

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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.

## Amino acid Sequence

LDNGLARTPT MGWLHWERFM CNLDCQEEDP SCISEKLFME MAELMVSEGW KDAGYEYLCI DDCWMAPQRD  
SEGRQLADPQ RFPHGIRQLA NYVHSKGLKL GIYADVGNKT CAGFPGSFGY YDIDAQTFAD WGVDLLKFDG CYCDSLENLA  
DGYKHMSLAL NRTGRSIVYS CEWPLYMWPF QKPNYTEIRQ YCNHWRNFAD IDDSWWSIKS ILDWTSFNQE RIVDVAGPGG  
WNDPDMLVIG NFGLSWNQVQV TQMALWAIMA APLFMSNDR HISPQAKALL QDKDVIAINQ DPLGKQGYQL  
RQGDNFVWE RPLSGLAWAV AMINRQEIGG PRSYTIAVAS LGKGVACNPA CFITQLLPVK RKLGFYEWTS RLRSHINPTG  
TVLLQLENTM QMSLKDLLVE HHHHHH

## 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.

## DATA

### SDS-PAGE

(kDa)

70  
57  
40  
28  
18  
13.5  
8.5



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)