Recombinant human alpha-Galactosidase A/GLA protein

Catalog Number: ATGP3225

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
32-429aa

UniProt No.
P06280

NCBI Accession No.
NP_000160

Alternative Names
GLA, GALA

PRODUCT SPECIFICATION

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

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-

Recombinant human alpha-Galactosidase A/GLA protein

Catalog Number: ATGP3225

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

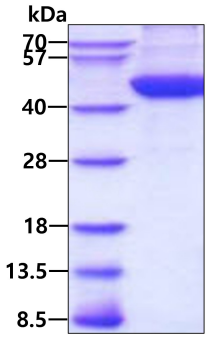
LDNGLARTPT MGWLHWERFM CNLDCQEEPD SCISEKLFME MAELMVSEGW KDAGYEYLCI DDCWMAPQRD SEGRLQADPQ RFPHGIRQLA NYVHSKGLKL GIYADVGNKT CAGFPGSFGY YDIDAQTFAD WGVDLLKFDG CYCDSLENLA DGYKHMSLAL NRTGRSIVYS CEWPLYMWPF QKPNYTEIRQ YCNHWRNFAD IDDSWKSIKS ILDWTSFNQE RIVDVAGPGG WNDPDMLVIG NFGLSWNQQV TQMALWAIMA APLFMSNDLR HISPQAKALL QDKDVIAINQ DPLGKQGYQL RQGDNFEVWE RPLSGLAWAV AMINRQEIGG PRSYTIAVAS LGKGVACNPA CFITQLLPVK RKLGFYEWTS RLRSHINPTG TVLLQLENTM QMSLKDLL<VE 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



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