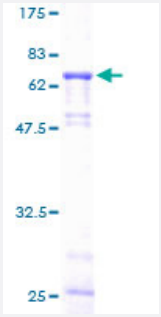
Full-Length

GLA (Human) Recombinant Protein (P01)

Catalog # H00002717-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human GLA full-length ORF (AAH02689, 1 a.a. - 429 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MQLRNPELHLGCALALRFLALVSWDIPGARALDNGLARTPTMGWLHWERFMCNLDCQEEPDSCI SEKLFMEMAELMVSEGWKDAGYEYLCIDDCWMAPQRDSEGRLQADPQRFPHGIRQLANYVHSK GLKLGIYADVGNKTCAGFPGSFGYYDIDAQTFADWGVDLLKFDGCYCDSLENLADGYKHMSLALN RTGRSIVYSCEWPLYMWPFQKPNYTEIRQYCNHWRNFADIDDSWKSIKSILDWTSFNQERIVDVAG PGGWNDPDMLVIGNFGLSWNQQVTQMALWAIMAAPLFMSNDLRHISPQAKALLQDKDVIAINQD PLGKQGYQLRQGDNFEVWERPLSGLAWAVAMINRQEIGGPRSYTIAVASLGKGVACNPACFITQL LPVKRKLGFYEWTSRLRSHINPTGTVLLQLENTMQMSLKDLL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	72.93
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GLA

Entrez GeneID	2717
GeneBank Accession#	BC002689
Protein Accession#	AAH02689
Gene Name	GLA
Gene Alias	GALA
Gene Description	galactosidase, alpha
Omim ID	300644 301500
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	OTTHUMP00000023679|agalsidase alfa|alpha-D-galactosidase A|alpha-D-galactoside galactohydrolase 1|alpha-gal A|alpha-galactosidase A|melibiase

Publication Reference

- Integrated approach to produce a recombinant, his-tagged human alpha-galactosidase A in mammalian cells.

  Corchero JL, Mendoza R, Lorenzo J, Rodriguez-Sureda V, Dominguez C, Vazquez E, Ferrer-Miralles N, Villaverde A.

  Biotechnology Progress 2011 Sep; 27(5):1206.

  Application: WB, Rabbit, Serum

Pathway

- Galactose metabolism
- Glycerolipid metabolism
- Glycosphingolipid biosynthesis - globo series
- Lysosome
- Sphingolipid metabolism

Disease

- Cardiomyopathy
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Fabry Disease
- Hypertrophy
- Lipid Metabolism
- Mitochondrial Myopathies
- Stroke