Datasheet for ABIN1096122

GLB1 Protein (AA 24-677) (His tag)

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Overview

Quantity:	50 µg
Target:	GLB1
Protein Characteristics:	AA 24-677
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLB1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human β-Galactosidase/GLB1 (C-6His)
Sequence:	LRNATQRMFE IDYSRDSFLK DGQPFRYISG SIHYSRVPRF YWKDRLLKMK MAGLNAIQTY VPWNFHEPWP GQYQFSEDHD VEYFLRLAHE LGLLVILRPG PYICAEWEMG GLPAWLLEKE SILLRSSDPD YLAAVDKWLG VLLPKMKPLL YQNGGPVITV QVENEYGSYF ACDFDYLRFL QKRFRHHLGD DVVLFTTDGA HKTFLKCGAL QGLYTTVDFG TGSNITDAFL SQRKCEPKGP LINSEFYTGW LDHWGQPHST IKTEAVASSL YDILARGASV NLYMFIGGTN FAYWNGANSP YAAQPTSYDY DAPLSEAGDL TEKYFALRNI IQKFEKVPEG PIPPSTPKFA YGKVTLEKLK TVGAALDILC PSGPIKSLYP LTFIQVKQHY GFVLYRTTLP QDCSNPAPLS SPLNGVHDRA YVAVDGIPQG VLERNNVITL NITGKAGATL DLLVENMGRV NYGAYINDFK GLVSNLTLSS NILTDWTIFP LDTEDAVRSH LGGWGHRDSG HHDEAWAHNS SNYTLPAFYM GNFSIPSGIP DLPQDTFIQF PGWTKGQVWI NGFNLGRYWP ARGPQLTLFV PQHILMTSAP NTITVLELEW APCSSDDPEL CAVTFVDRPV IGSSVTYDHP SKPVEKRLMP PPPQKNKDSW LDHVVDHHHH HH
Characteristics:	Recombinant Human beta-Galactosidase/GLB1 is produced with our mammalian expression

Product Details

	system in human cells. The target protein is expressed with sequence (L24-V677) of Human GLB1 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	GLB1
Alternative Name:	glb1 (GLB1 Products)
Sub Type:	Fusionprotein
Background:	Beta Galactosidase is a lysosomal beta Galactosidase that hydrolyzes the terminal beta Galactose from Ganglioside and Keratan sulfate. In lysosome, the mature beta Galactosidase protein associates with Cathepsin A and Neuraminidase 1 to form the lysosomal multienzyme complex . An alternative splicing at the RNA level of beta Galactosidase results a catalytically inactive beta Galactosidase that plays an important role in vascular development. Defects of beta-galactosidase (GLB1) are the cause of diseases like GM1-gangliosidosis which is a lysosomal storage disease and Morquio Syndrome B that cause patients to have abnormal elastic fibers. More than 100 mutations have been identified for beta Galactosidase, which result in different residual activities of the mutant enzymes and a spectrum of symptoms in the two related diseases. Alternative Names: Beta-Galactosidase, Acid Beta-Galactosidase, Lactase, Elastin Receptor 1, GLB1, ELNR1
Molecular Weight:	74.63 kDa
UniProt:	P16278
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid

Handling

Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months