



# Recombinant Human Beta-galactosidase (GLB1)

<b>Product Code</b>	CSB-EP009476HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P16278
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	QR MFEIDYSRDS FLKDGQPFYR ISGSIHYSRV PRFYWKDRLL KMKMAGLNAI QTYVPWNFHE PWPQQYQFSE DHDVEYFLRL AHELGLLVIL RPGPYICAEW EMGGLPAWLL EKESILLRSS DPDYLAAVDK WLGVLLPKMK PLLYQNGGPV ITVQVENEYG SYFACDFDYR RFLQKRFRHH LGDDVVLFTT DGAHKTFKLC GALQGLYTTV DFGTGSNITD AFLSQRKCEP KGPLINSEFY TGWLDHWGQP HSTIKTEAVA SSLYDILARG ASVNLVYMFY GTNFAYWNGA NSPYAAQPTS YDYDAPLSEA GDLTEKYFAL RNIIQKFEKV PEGPIPPSTP KFAYGKVTLE KLKTVGAALD ILCPSGPIKS LYPLTFIQVK QHYGFVLYRT TLPQDCSNPA PLSSPLNGVH DRAYVAVDGI PQQVLERNNV ITLNLITGKAG ATLDLLVENM GRVNYGAYIN DFKGLVSNLT LSSNILDWT IFPLDTEAV RSHLGGWGHR DSGHHDEAWA HNSSNYTLPA FYMGNFSIPS GIPDLPQDTF IQFPGWTKGQ VWINGFNLGR YWPARGPQLT LFVPQHILMT SAPNTITVLE LEWAPCSSDD PELCAVTFVD RPIVIGSSVTY DHPSKPVEKR LMPPPPQKNK DSWLDHV
<b>Source</b>	E.coli
<b>Target Names</b>	GLB1
<b>Protein Names</b>	Recommended name: Beta-galactosidase EC= 3.2.1.23 Alternative name(s): Acid beta-galactosidase Short name= Lactase Elastin receptor 1
<b>Expression Region</b>	29-677
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This gene encodes beta-galactosidase-1, a lysosomal enzyme that hydrolyzes the terminal beta-galactose from ganglioside substrates and other glycoconjugates. Defects in this gene are the cause of GM1-gangliosidosis and Morquio B syndrome. Multiple transcript variants encoding different isoforms have been found for this gene.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.



## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.