

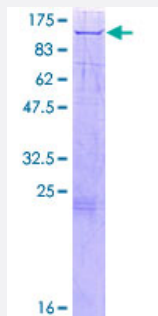
Full-Length

MAN2B1 (Human) Recombinant Protein (P01)

Catalog # H00004125-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MAN2B1 full-length ORF (NP_000519.2, 1 a.a. - 1011 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGAYARASGVCARGCLDSAGPWTMSRALRPPLPLCFFLLLLAAAGARAGGYETCPTVQPNML
NVHLLPHTHDDVGWLKTVQYFYGIKNDIQHAGVQYILDSVISALLADPTRRFIVEIAFFSRWWHQ
QTNATQEVRDLVRQGRLEFANGGWVMNDEAATHYGAVDQMTLGLRFLEDTFGNDGRPRVAW
HIDPFGHSREQASLFAQMGFDGFFFGRLDYQDKWVRMQKLEMEQVWRASLSLKPPPTADLFTGV
LPNGYNPPRNLCWDVLCVDQPLVEDPRSPEYNAKELVDYFLNVATAQGGRYYRTNHTVMTMGSD
QYENANMWFKNLDKLIRLVNAQQAAGSSVHVLSTPACYLWELNKANLTWSVKHDDFFPYADGP
HQFWTGYFSSRPALKRYERLSYNFLQVCNQLEALVGLAANVGPGYSGDSAPLNEAMAVLQHHD
AVSGTSRQHVANDYARQLAAGWGPCEVLLSNALARLRGFKDHFTFCQQLNISICPLSQTAARFQV
IYNPLGRKVNWMVRLPVSEGVFVVKDPNGRTVPSDVVIFPSSDSQAHPPPELLFSASLPALGFST
YSVAQVPRWKPQARAPQPIPRRSWSPALTIENEHIRATFDPD TGLLMEIMNMNQQLLPVRQTFF
WYNASIGDNESDQASGAYIFRPNQKPLPVSRWAQIHLVKTPLVQEVHQNFSAWCSQVVRLYPG
QRHLELEWSVGPIPVGDTWGKEVISRFDTPLETKGRFYTDSNGREILERRRDYRPTWKLNQTEPV
AGNYYPVNTRIYTDGNMQLTVLTDRSQGGSSLRDGSLELMVHRRLKDDGRGVSEPLMENGSGA
WVRGRHLVLLDTAQAAAAGHRLLAEQEVLAPQVVLAPGGGAAYNLGAPPRTQFSGLRRLDPPS
VHLLTLASWGPEMVLLRLEHQFAVGEDSGRNLAPVTLNLRDLFSTFTITRLQETTTLVANQLREAA
SRLKWTNTGPTPHQTPYQLDPANITLPEMEIRTFILASVQWKEVDG

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

140.1

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 — MAN2B1

Entrez GeneID	4125
GeneBank Accession#	NM_000528.2
Protein Accession#	NP_000519.2
Gene Name	MAN2B1
Gene Alias	LAMAN, MANB
Gene Description	mannosidase, alpha, class 2B, member 1
Omim ID	248500 609458
Gene Ontology	Hyperlink

Gene Summary

This gene encodes an enzyme that hydrolyzes terminal, non-reducing alpha-D-mannose residues in alpha-D-mannosides. Its activity is necessary for the catabolism of N-linked carbohydrates released during glycoprotein turnover and it is member of family 38 of glycosyl hydrolases. The full length protein is processed in two steps. First, a 49 aa leader sequence is cleaved off and the remainder of the protein is processed into 3 peptides of 70 kDa, 42 kDa (D) and 13/15 kDa (E). Next, the 70 kDa peptide is further processed into three peptides (A, B and C). The A, B and C peptides are disulfide-linked. Defects in this gene have been associated with lysosomal alpha-mannosidosis. [provided by RefSeq]

Other Designations

lysosomal acid alpha-mannosidase|mannosidase, alpha B, lysosomal

Pathway

- [Lysosome](#)
- [Other glycan degradation](#)