

Recombinant Human MAN2B1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MAN2B1-4289H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MAN2B1 MS Standard C13 and N15-labeled recombinant protein (NP_000519) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	113.7 kDa
AA Sequence	MGAYARASGVCARGCLDSAGPWTMSRALRPPLPPLCFFLLLLAAAGARAGGYETC PTVQPNMLNVHLLPHTHDDVGWLKTVDQYFYGIKNDIQHAGVQYILDSVISALLADPT RRFIYVEIAFFSRWWHQQTNATQEVVRDLVRQGRLEFANGGWVMNDEAATHYGAI

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VDQMTLGLRFLEDTFGNDGRPRVAWHIDPFGHSREQASLFAQMFGDGGFFGRLDY
QDKWVRMQKLEMEQVWRASSTLKPPTADLFTGVLPNGYNPPRNLCWDVLCVDQP
LVEDPRSPEYNAKELVDYFLNVATAQGRIYRTNHTVMTMGSDQYENANMWFKNL
DKLIRLVNAQQAQKSSVHVLYSTPACYLWELNKANLTWSVKHDDFFPYADGPHQF
WTGYFSSRPALKRYERLSYNFLQVCNQLEALVGLAANVGYPYSGSDSAPLNEAMAVL
QHHDVAVSGTSRQHVANDYARQLAAGWGPCEVLLSNALARLRGFKDHFTFCQQLNI
SICPLSQTAARFQVIVYNPLGRKVNWMVRLPVSEGVFVVKDPNGRTVPSDVVIFPSS
DSQAHPPPELLFSASLPALGFSTYSVAQVPRWKPQARAPQIPRRSWSPALTIENEHI
RATFDPDTGLLMEIMNMNQQLLLPVRQTFFWYNASIGDNESDQASGAYIFRPNQKQ
PLPVSRWAQIHLVKTPLVQEVHQNFSAWCSQVVRLYPGQRHLELEWSVGPIPVGDT
WGKEVISRFDTPLETKGRFYTDSNGREILERRRDYRPTWKLNQTEPVAGNYYPVNT
RIYITDGNMQLTVLTDRSQGGSSLRDGSLELMVHRLLKDDGRGVSEPLMENGSGA
WVRGRHLVLLDTAQAAAAGHRLLAEQEV LAPQVVLAPGGGAAYNLGAPPRTQFSG
LRRDLPPSVHLLTLASWGPEMVLLRLEHQFAVGEDSGRNLSAPVTNLRLDLFSTFTI
TRLQETTLVANQLREAASRLKWTNTGTPHQTPYQLDPANITLEPMEIRTF LASVQ
WKEVDGTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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Gene Name	MAN2B1 mannosidase alpha class 2B member 1 [Homo sapiens (human)]
Official Symbol	MAN2B1
Synonyms	MAN2B1; mannosidase, alpha, class 2B, member 1; MANB; lysosomal alpha-mannosidase; LAMAN; mannosidase alpha-B; mannosidase, alpha B, lysosomal; lysosomal acid alpha-mannosidase;
Gene ID	4125
mRNA Refseq	NM_000528
Protein Refseq	NP_000519
MIM	609458
UniProt ID	O00754
SDS-PAGE	