

Recombinant Full Length Human mannosidase, alpha, class 2B, member 1 Protein, Flag tagged

Cat. No. MAN2B1-43HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Homo sapiens mannosidase, alpha, class 2B, member 1 (MAN2B1) with C-Myc/DDK tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-1011aa
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.
Tag	C-Flag
Molecular Mass	108.7 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence

MGAYARASGVCARGCLDSAGPWTMSRALRPPLPLCFFLLLLAAAGARAGGYETC
PTVQPNMLNVHLLPHTHDDVGWLKTVDDQYFYGIKNDIQHAGVQYILDSVISALLADPT
RRFIYVEIAFFSRWWHQQT NATQEVVRDLVRQGRLEFANGGWVMNDEAATHYGAI
VDQMTLGLRFLEDTFGNDGRPRVAWHIDPFGHSREQASLFAQMGFDGFFFGRLDY
QDKWVRMQKLEMEQVWRASLSKPPTADLFTGVLPNGYNPPRNLCWDVLCVDQP
LVEDPRSPEYNAKELVDYFLNVATAQGRIYRTNHTVMTMGSDQYENANMWFKNL
DKLIRLVNAQQAAGSSVHVLYSTPACYLWELNKANLTWSVKHDDFFPYADGPHQF
WTGYFSSRPALKRYERLSYNFLQVCNQLEALVGLAANVGYPYSGSDAPLNEAMAVL
QHHDVSGTSRQHVANDYARQLAAGWGPCEVLLSNALARLRGFKDHFTFCQQLNI
SICPLSQTAARFQVIVYNPLGRKVNWMVRLPVSEGVFVVKDPNGRTVPSDVVIFPSS
DSQAHPPELLFSASLPALGFSTYSVAQVPRWKPQARAPQIPRRSWSPALTIENEHI
RATFDPDTGLLMEIMNMNQQLLLPVRQTFWYNASIGDNESDQASGAYIFRPNQK
PLPVS RWAQIHLVKTPLVQEVHQNFSAWCSQVVRLYPGQRHLELEWSVGPIPVGDT
WGKEVISRFDTPLETKGRFYTDSNGREILERRRDYRPTWKLNQTEPVAGNYYPVNT
RIYITDGNMQLTVLTDRSQGGSSLRDGSLELMVHRLLKDDGRGVSEPLMENGSGA
WVRGRHLVLLDTAQAAAAGHRLLAEQEV LAPQVVLAPGGGAAYNLGAPPRTQFSG
LRRDLPPSVHLLTLASWGPEMVLLRLEHQFAVGEDSGRNLSAPVTNLNRLDFSTFTI
TRLQETTLVANQLREAASRLKWTNTGTPTPHQTPYQLDPANITLEPMEIRTF LASVQ
WKEVDGTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

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

Stability

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage

Store at -80 centigrade.

Concentration

> 0.05 µg/µL as determined by microplate BCA method

Storage Buffer

25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Notes

For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

GENE INFORMATION

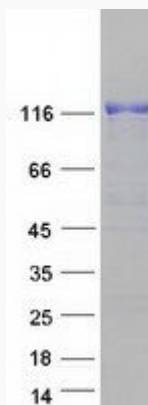
Gene Name	MAN2B1 mannosidase, alpha, class 2B, member 1 [Homo sapiens (human)]
Official Symbol	MAN2B1
Synonyms	MAN2B1; mannosidase, alpha, class 2B, member 1; MANB; lysosomal alpha-mannosidase; LAMAN; mannosidase alpha-B; mannosidase, alpha B, lysosomal; lysosomal acid alpha-mannosidase;
Gene ID	4125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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SDS-PAGE



Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA