

Recombinant Human MAN2B1 protein, His & T7-tagged

Cat. No. MAN2B1-1550H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MAN2B1 aa. (Ala883~Gly1011 (Accession # O00754)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ala883~Gly1011
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 18.2kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>95%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	6.3

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; LAMAN; lysosomal alpha-mannosidase; lysosomal acid alpha-mannosidase; mannosidase alpha-B; mannosidase, alpha B, lysosomal
Gene ID	4125
mRNA Refseq	NM_000528.3

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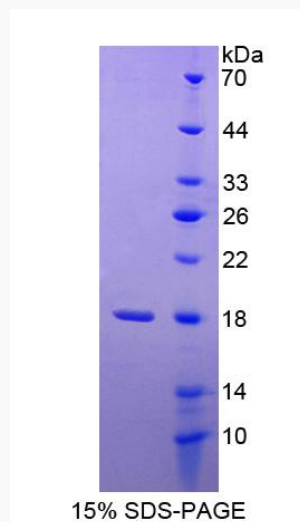
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Protein Refseq NP_000519.2

UniProt ID O00754

SDS-PAGE



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