

MAN1B1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70957
Synonyms:	Endoplasmic Reticulum Mannosyl-Oligosaccharide 1; 2-Alpha-Mannosidase; ER Alpha-1; 2-Mannosidase; ER Mannosidase 1; ERMan1; Man9GlcNAc2-Specific-Processing Alpha-Mannosidase; Mannosidase Alpha Class 1B Member 1; MAN1B1
Species:	Human
Source:	HEK293
Accession:	Q9UKM7 (D106-A699)
Gene ID:	11253
Molecular Weight:	58-80 kDa

PROPERTIES

AA Sequence

DHWKALAFRL	EEEQKMRPEI	AGLKPANPPV	LPAPQKADTD
PENLPEISSQ	KTQRHIQRGP	PHLQIRPPSQ	DLKDGQTQEEA
TKRQEAPVDP	RPEGDPQRTV	ISWRGAVIEP	EQGTELPSSR
AEVPTKPPLP	PARTQGTPVH	LNRYRQKGVID	VFLHAWKGYR
KFAWGHDELK	PVSRSFSEWF	GLGLTLIDAL	DTMWILGLRK
EFEARKWVS	KKLHFEKDVD	VNLFESTIRI	LGGLLSAYHL
SGDSLFLRKA	EDFGNRLMPA	FRTPSKIPYS	DVNI GTGVAH
PPRWTSDSTV	AEVTSIQLEF	RELSRLTGDK	KFQEAVEKVT
QH IHGLSGKK	DGLVPMFINT	HSGLFTHLGV	FTLGARADSY
YEYLLKQWIQ	GGKQETQLLE	DYVEAIEGVR	THLLRHSEPS
KLTFVGE LAH	GRFSAKMDHL	VCFLPGTLAL	GVYHGLPASH
MELAQELMET	CYQMNRQMET	GLSPEIVHFN	LYPQPGRRDV
EVKPADRHNL	LRPETVESLF	YLYRVTGDRK	YQDWGWEILQ
SFSRFRTRVPS	GGYSSINNVQ	DPQKPEPRDK	MESFFLGETL
KYLFLFLFSDD	PNLLSLDAYV	FNTEAHPLPI	WTPA

Appearance

Solution

Formulation

Supplied as a 0.2 µm filtered solution of 50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 or 20 mM PB, 50 mM NaCl, 5% Sucrose, 5% Mannitol, 0.05% Tween 80, pH 8.0.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

N/A

Storage & Stability

Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

Shipping

Shipping with dry ice

DESCRIPTION

Background

The MAN1B1 protein plays a pivotal role in glycoprotein quality control, participating in the targeting of misfolded glycoproteins for degradation. Its primary enzymatic activity involves the trimming of a single alpha-1,2-linked mannose residue from Man(9)GlcNAc(2), resulting in the production of Man(8)GlcNAc(2). Notably, in the ER quality control compartment (ERQC) where enzyme concentrations are elevated, MAN1B1 can further trim the carbohydrates to Man(5-6)GlcNAc(2). This enzymatic function highlights its crucial involvement in the processing and quality control of glycoproteins within the endoplasmic reticulum, ensuring the proper folding and maturation of these proteins.

Caution: Product has not been fully validated for medical applications. For research use only.

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