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MAN1B1 Protein (AA 106-699) (His tag)



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Overview

Quantity:	50 μg
Target:	MAN1B1
Protein Characteristics:	AA 106-699
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAN1B1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human ER α-1,2-Mannosidase/MAN1B1 (C-6His)
Sequence:	DHWKALAFRL EEEQKMRPEI AGLKPANPPV LPAPQKADTD PENLPEISSQ KTQRHIQRGP
	PHLQIRPPSQ DLKDGTQEEA TKRQEAPVDP RPEGDPQRTV ISWRGAVIEP EQGTELPSRR
	AEVPTKPPLP PARTQGTPVH LNYRQKGVID VFLHAWKGYR KFAWGHDELK PVSRSFSEWF
	GLGLTLIDAL DTMWILGLRK EFEEARKWVS KKLHFEKDVD VNLFESTIRI LGGLLSAYHL
	SGDSLFLRKA EDFGNRLMPA FRTPSKIPYS DVNIGTGVAH PPRWTSDSTV AEVTSIQLEF
	RELSRLTGDK KFQEAVEKVT QHIHGLSGKK DGLVPMFINT HSGLFTHLGV FTLGARADSY
	YEYLLKQWIQ GGKQETQLLE DYVEAIEGVR THLLRHSEPS KLTFVGELAH GRFSAKMDHL
	VCFLPGTLAL GVYHGLPASH MELAQELMET CYQMNRQMET GLSPEIVHFN LYPQPGRRDV
	EVKPADRHNL LRPETVESLF YLYRVTGDRK YQDWGWEILQ SFSRFTRVPS GGYSSINNVQ
	DPQKPEPRDK MESFFLGETL KYLFLLFSDD PNLLSLDAYV FNTEAHPLPI WTPAVDHHHH HH
Characteristics:	Recombinant Human Endoplasmic Reticulum Mannosyl-Oligosaccharide 1,2-alpha-
	Mannosidase/MAN1B1 is produced by our mammalian expression system in human cells. The

Product Details

Product Details	
	target protein is expressed with sequence (Asp106-Ala699) of Human MAN1B1 fused with a
	polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 μm filtered
Endotoxin Level:	Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test
Target Details	
Target:	MAN1B1
Alternative Name:	MAN1B1 (MAN1B1 Products)
Sub Type:	Fusionprotein
Background: Molecular Weight: UniProt:	Endoplasmic Reticulum Mannosyl-Oligosaccharide 1,2-alpha-Mannosidase (MAN1B1) belongs to the glycosyl hydrolase 47 family. MAB1B1 is a single-pass type II membrane protein and widely expressed in many tissues. MAB1B1 is involved in glycoprotein quality control targeting of misfolded glycoproteins for degradation. MAB1B1 can be inhibited by both 1-deoxymannojirimycin (dMNJ) and kifunensine. Defects in MAN1B1 are the cause of mental retardation autosomal recessive type 15 (MRT15). Mental retardation is characterized by significantly below average general intellectual functioning, it is also associated with impairments in adaptative behavior and manifested during the developmental period. Alternative Names: 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 68.7 kDa
OHIPTOL.	Q9UNIVI
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$. Dissolve the lyophilized protein in ddH20.

Handling

	Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Supplied as a 0.2 µm filtered solution of 50 mM TrisHCL,10 mM reduced Glutathione, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months