

MAN1B1 Protein, Human, Recombinant (His)

General Information

Synonyms:	ER Alpha-1;Man9GlcNAc2-Specific-Processing Alpha-Mannosidase;Endoplasmic Reticulum Mannosyl-Oligosaccharide 1;Mannosidase Alpha Class 1B Member 1;MAN1B1;ER α -1;ER Mannosidase 1;Mannosidase α Class 1B Member 1;Man9GlcNAc2-Specific-Processing α -Mannosidase;ERMan1;2-Mannosidase;2-Alpha-Mannosidase;2- α -Mannosidase
Protein Construction:	Asp106-Ala699
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9UKM7
Molecular Weight:	58-80 KDa (reducing condition)
AA Sequence:	Asp106-Ala699

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Supplied as a 0.2 μ m filtered solution of 50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Endoplasmic Reticulum Mannosyl-Oligosaccharide 1,2- α -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 adaptive behavior and manifested during the developmental period.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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