

Recombinant Human MAN1B1 Protein (His Tag)

Catalog Number:PKSH032400



Note: Centrifuge before opening to ensure complete recovery of vial contents.

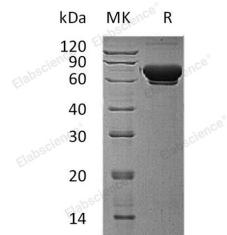
Description

| | |
|------------------------------------|--|
| 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 |
| Expression Host | HEK293 Cells |
| Sequence | Asp106-Ala699 |
| Accession | Q9UKM7 |
| Calculated Molecular Weight | 68.7 kDa |
| Observed molecular weight | 58-80 kDa |
| Tag | C-His |

Properties

| | |
|-----------------------|--|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per μ g of the protein as determined by the LAL method. |
| Storage | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. |
| Shipping | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C. |
| Formulation | Supplied as a 0.2 μ m filtered solution of 50mM Tris-HCl,10mM reduced Glutathione,pH 8.0. |
| Reconstitution | Not Applicable |

Data



> 95 % as determined by reducing SDS-PAGE.

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 adaptative behavior and manifested during the developmental period.

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