Recombinant Human MAN1B1 Protein (His Tag)

Catalog Number: PKSH032400

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

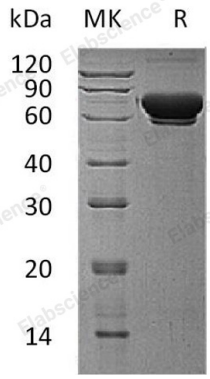
Description

Species	Human
Source	HEK293 Cells-derived Human MAN1B1 protein Asp106-Ala699, with an C-terminal His
Calculated MW	68.7 kDa
Observed MW	58-80 kDa
Accession	Q9UKM7
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per μg 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 μm filtered solution of 50mM Tris-HCl,10mM reduced Glutathione,pH 8.0.

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.