

## 32-7699: Recombinant Human ER $\alpha$ -1,2-Mannosidase/MAN1B1 (C-6His)

**Gene :** MAN1B1

**Gene ID :** 11253

**Uniprot ID :** Q9UKM7

### Description

Source: Human Cells.

MW :68.7kD.

Recombinant Human MAN1B1 is produced by our Mammalian expression system and the target gene encoding Asp106-Ala699 is expressed with a 6His tag at the C-terminus. 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 adaptive behavior and manifested during the developmental period.

### Product Info

**Amount :** 10  $\mu$ g / 50  $\mu$ g

**Content :** Supplied as a 0.2  $\mu$ m filtered solution of 50mM TrisHCL,10mM reduced Glutathione,pH 8.0.

**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

**Amino Acid :** DHWKALAFRLEEEQKMRPEIAGLKPANPPVLPAPQKADTDPENLPEISSQKTQRHIQRPPLQIRPPSQDLKD  
GTQEEATKRQEAPVDPPEGDPQRTVISWRGAVIEPEQGTLPSSRAEVPTKPLPPARTQGTPVHLNRYRQKG  
VIDVFLHAWKGYRKFAGHDELKPVSRSEWFGGLTLIDALDTMWILGLRKEFEARKWVSKLHFEKDVD  
VNLFEFESTIRILGGLLSAYHLSGDSLFLRKAEDFGNRLMPAFRTPSKIPYSDVNIGTGVAHPPRWTSDESTVAEVTSI  
QLEFRELSRLTGDKKQEAWEKVTQHHGLSGKDGGLVPMFINTHSGLFTHLGVFTLGLARADSYEYLLKQWQI  
GGKQETQLLEDYVEAIEGVRTHLLRHSEPSKLTFFVGLAHGRFSKMDHLVCFPLPGLALGVYHGLPASHMELA  
QELMETCYQMNRQMETGLSPEIVHFNLYPQGRRDVEVKPADRHNLRLPETVESLFYLYRVTGDRKYQDWGW  
EILQSFTRVPSGGYSSINNVQDPQKPEPRDKMESFFLGETLKYLFLLFSDDPNLLSLDAYVFNTEAHPPIWT  
PAVDHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.