9051 Mira Mesa Blvd, #910094
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Tel: 760-390-3989

M6PR Human

Mannose-6-Phosphate Receptor Human Recombinant
RCP1293

Product Overview

Name	M6PR Human
Description	
Mannose-6-Phosphate Receptor Human Recombinant	
Accession (Primary)	P20645
Synonyms	
Mannose-6-Phosphate Receptor (Cation Dependent), CD-MPR, MPR46, CD Man-6-P Receptor, MPR 46, 46-KDa Mannose 6-Phosphate Receptor, MPR-46, SMPR, Cation-Dependent Mannose-6-Phosphate Receptor, Mr 46,000 Man6PR, Small Mannose 6-Phosphate Receptor, 46 KDa Mannose 6-Phosphate Receptor, MPRD, M6PR.	
Introduction	
Mannose-6-Phosphate Receptor (M6PR) belongs to the P-type lectin family. P-type lectins play a vital role in lysosome function through the specific transport of mannose-6-phosphate-containing acid hydrolases from the Golgi complex to lysosomes. The M6PR protein functions as a homodimer and needs divalent cations for ligand binding. Lysosomal enzymes carrying phosphomannosyl residues bind specifically to mannose-6-phosphate receptors in the Golgi apparatus and the ensuing receptor-ligand complex is transferred to an acidic prelyosomal compartment where the low pH mediates the dissociation of the complex.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered clear solution.	
Formulation	
The M6PR solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 85.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS TEEKTCD LVGEKGKESE KELALVKRLK PLFNKSFEST VGQGSDTYIY	

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IFRVCREAGN HTSGAGLVQI NKSNGKETVV GRLNETHIFN GSNWIMLIYK GGDEYDNHCG KEQRRAVVMI SCNRHTLADN FNPVSEERGK VQDCFYLFEM DSSLACSPEI SH.

Precautions

M6PR Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P20645)