
Product Data Sheet

Product Name: M6PR Human
 Cat. No.: GP23856
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSTEEKTCD LVGEKKGKESKELALVKRLK PLFNKSFEST VGQGSPTYIY IFRVCREAGN HTSGAGLVQI NKSNGKETVV GRLNETHIFN GSNWIMLIYK GGDEYDNHCG KEQRRAVVMI SCNRHTLADN FNPVSEERGK VQDCFYLFEM DSSLACSPEI SH.		
Formulation	The M6PR solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

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 prelysosomal compartment where the low pH mediates the dissociation of the complex.

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%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

M6PR Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 182 amino acids (27-185) and having a molecular mass of 20.3kDa. M6PR is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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