

32-4144: Recombinant Human Mannose-6-Phosphate Receptor

Alternative Name : 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 KD

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount : 10 µg
Purification : Greater than 85.0% as determined by SDS-PAGE.
Content : The M6PR solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.
Storage condition : 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.
Amino Acid : MGSSHHHHHH SGLVPRGSH MGSTEEKTCD LVGEKKGKESKELALVKRLK PLFNKSFEST VGGQSDTYIY IFRVCREAGN HTSGAGLVQI NKSNGKETVV GRLNETHIFN GSNWIMLIYK GGDEYDNHCG KEQRRVAVMI SCNRHTLADN FNPVSEERGK VQDCFYLFEM DSSLACSPEI SH.

