

**M6PR, 27-185aa, Human, His tag, E.coli**

**Cat.NO.: TP02872**

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3th Edition

**Synonyms:** Cation-dependent mannose-6-phosphate receptor isoform 1, CD-MPR, MPR 46, MPR-46, MPR46, SMPR

**Description:** M6PR is a member of the P-type lectin family. P-type lectins play a critical role in lysosome function through the specific transport of mannose-6-phosphate-containing acid hydrolases from the Golgi complex to lysosomes. This protein functions as a homodimer and requires divalent cations for ligand binding. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. A pseudogene of this gene is located on the long arm of chromosome X. Recombinant human M6PR protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques..

**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

**Molecular Weight:** 20.3kDa (182aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSTEEKTCDLVGEKKGKESEKELALVKRLKPLFNKSFESTVGQGSPTYIYIFRVC  
REAGNHTSGAGLVQINKSNGKETVVGRNETHIFNGSNWIMLIYKGGDEYDNHCGKEQRRRAVVMISCNRHTLADN  
FNPVSEERGKVQDCFYLFEMDSSLACSPESH

**Purity:** > 95% by HPLC

**Concentration:** 0.5 mg/ml (determined by BRADFORD assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.