Recombinant Human M6PR, His-tagged

Cat. No. M6PR-182H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	M6PR, 27-185aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	27-185aa
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 Mass	20.3kDa (182aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSTEEKTCD LVGEKGKESE KELALVKRLK PLFNKSFEST VGQGSDTYIY IFRVCREAGN HTSGAGLVQI NKSNGKETVV GRLNETHIFN GSNWIMLIYK GGDEYDNHCG KEQRRAVVMI SCNRHTLADN

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	FNPVSEERGK VQDCFYLFEM DSSLACSPEI SH
Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by BRADFORD assay)

GENE INFORMATION

Gene Name	M6PR mannose-6-phosphate receptor (cation dependent) [Homo sapiens]
Official Symbol	M6PR
Synonyms	M6PR; mannose-6-phosphate receptor (cation dependent); cation-dependent mannose-6-phosphate receptor; Mr 46,000 Man6PR; CD Man-6-P receptor; small mannose 6-phosphate receptor; 46-kDa mannose 6-phosphate receptor; SMPR; MPR46; CD-MPR; MPR 46; MPR-46; FLJ32994;
Gene ID	4074
mRNA Refseq	NM_001207024
Protein Refseq	NP_001193953
MIM	154540
UniProt ID	P20645
Chromosome Location	12

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Pathway	Clathrin derived vesicle budding, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Lysosome Vesicle Biogenesis, organism-specific biosystem; Membrane Trafficking, organism-specific biosystem; Phagosome, organism-specific biosystem; Phagosome, conserved biosystem;
Function	mannose binding; mannose transmembrane transporter activity; receptor activity; transmembrane signaling receptor activity;

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