

AR51495PU-S**Human M6PR (27-185, His-tag) - Purified****Alternate names:**

46 kDa mannose 6-phosphate receptor, CD Man-6-P receptor, CD-MPR, Cation-dependent mannose-6-phosphate receptor, MPR46, MPRD

Quantity:

50 µg

Concentration:

0.5 mg/ml (determined by BRADFORD assay)

Background:

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.

Uniprot ID:

[P20645](#)

NCBI:

[NP_002346](#)

GeneID:

[4074](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >85% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Description:

Recombinant human M6PR protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques..

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSTEEKTCD LVGEKKESE KELALVKRLK PLFNKSFEST
VGQGSPTYIY IFRVCREAGN HTSGAGLVQI NKSNGKETVV GRLNETHIFN GSNWIMLIYK
GGDEYDNHCG KEQRRVVM I SCNRHTLADN FNPVSEERGK VQDCFYLFEM DSSLACSPEI SH

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

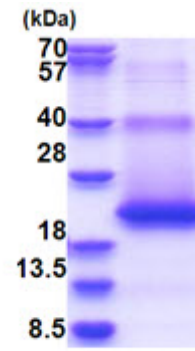
Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Prabakaran T, Nielsen R., et al. (2012) PLoS One. 2012;7(6):e39975.

Pictures:



15% SDS-PAGE (3ug)