M6PR Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702362
Synonyms:	Cation-dependent mannose-6-phosphate receptor; 46 kDa mannose 6-phosphate receptor; MPR 46
Species:	Human
Source:	E. coli Cell-free
Accession:	P20645 (T27-M277)
Gene ID:	4074
Molecular Weight:	30.7 kDa

PROPERTIES

AA Sequence	T E E K T C D L V G E K G K E S E K E L A L V K R L K P L F N K S F E S T V G Q G S D T Y I Y I F R V C R E A G N H T S G A G L V Q I N K S N G K E T V V G R L N E T H I F N G S N W I M L I Y K G G D E Y D N H C G K E Q R R A V V M I S C N R H T L A D N F N P V S E E R G K V Q D C F Y L F E M D S S L A C S P E I S H L S V G S I L L V T F A S L V A V Y V V G G F L Y Q R L V V G A K G M E Q F P H L A F W Q D L G N L V A D G C D F V C R S K P R N V P A A Y R G V G D D Q L G E E S E E R D D H L L P M
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	M6PR, a crucial player in cellular transport processes, facilitates the movement of phosphorylated lysosomal enzymes from both the Golgi complex and the cell surface to lysosomes. This intricate system relies on lysosomal enzymes carrying phosphomannosyl residues, which selectively bind to mannose-6-phosphate receptors within the Golgi apparatus. The ensuing formation of receptor-ligand complexes is then transported to an acidic prelyosomal compartment, where the low

pH environment triggers the dissociation of these complexes. Notably, M6PR functions as a homodimer and interacts with adaptor proteins GGA1, GGA2, and GGA3 to contribute to the precision of this intricate transport mechanism.

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