M6PR Protein, Bovine (Cell-Free, His)

Cat. No.:	HY-P702361
Synonyms:	Cation-dependent mannose-6-phosphate receptor; 46 kDa mannose 6-phosphate receptor; MPR 46
Species:	Bovine
Source:	E. coli Cell-free
Accession:	P11456 (T29-M279)
Gene ID:	281291
Molecular Weight:	30.8 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 L K R L T P L F N K S F E S T V G Q S P D M Y S Y V F R V C R E A G N H S S G A G L V Q I N K S N G K E T V V G R F N E T Q I F N G S N W I M L I Y K G G D E Y D N H C G R 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 L A S L V A V Y I I 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	The M6PR (Mannose-6-Phosphate Receptor) facilitates the transport of phosphorylated lysosomal enzymes from the Golgi complex and the cell surface to lysosomes. Lysosomal enzymes carrying phosphomannosyl residues exhibit specific binding to mannose-6-phosphate receptors within the Golgi apparatus. The formed receptor-ligand complex is subsequently transported to an acidic prelysosomal compartment, where the low pH facilitates the dissociation of the complex. The M6PR

	functions as a homodimer and interacts with GGA1, GGA2, and GGA3, contributing to the orchestration of the cellular machinery involved in the targeted delivery of lysosomal enzymes for proper lysosomal function.

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