

Meprin alpha/MEP1A Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77084
Synonyms:	Meprin A subunit alpha; Endopeptidase-2; PABA peptide hydrolase; PPH alpha
Species:	Mouse
Source:	HEK293
Accession:	NP_032611.2 (V34-R615)
Gene ID:	17287
Molecular Weight:	Approximately 90-95 kDa

PROPERTIES

AA Sequence	<pre> V S I K H L L N G S D H D T D V G E Q K D I F E I N L A A G L N L F Q G D I L L P R T R N A M R D P S S R W K L P I P Y I L A D N L E L N A K G A I L H A F E M F R L K S C V D F K P Y E G E S S Y I I F Q K L S G C W S M I G D Q Q V G Q N I S I G E G C D F K A T I E H E I L H A L G F F H E Q S R T D R D D Y V N I W W D Q I I T D Y E H N F N T Y D D N T I T D L N T P Y D Y E S L M H Y G P F S F N K N E S I P T I T T K I P E F N T I I G Q L P D F S A I D L I R L N R M Y N C T A T H T L L D H C D F E K T N V C G M I Q G T R D D A D W A H G D S S Q P E Q V D H T L V G Q C K G A G Y F M F F N T S L G A R G E A A L L E S R I L Y P K R K Q Q C L Q F F Y K M T G S P A D R F E V W V R R D D N A G K V R Q L A K I Q T F Q G D S D H N W K I A H V T L N E E K K F R Y V F L G T K G D P G N S S G G I Y L D D I T L T E T P C P A G V W T I R N I S Q I L E N T V K G D K L V S P R F Y N S E G Y G V G V T L Y P N G R I T S N S G F L G L T F H L Y S G D N D A I L E W P V E N R Q A I M T I L D Q E A D T R N R M S L T L M F T T S K N Q T S S A I N G S V I W D R P S K V G V Y D K D C D C F R S L D W G W G Q A I S H Q L L K R R N F L K G D S L I I F V D F K D L T H L N R </pre>
Biological Activity	Measured by its ability to cleave a fluorogenic peptide substrate, Mca-YVADAPK(Dnp)-OH. The specific activity is 324.93 pmol/min/μg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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**

Meprin alpha (MEP1A) protein is predicted to exhibit metalloendopeptidase activity and is primarily located in the membrane. It is expressed in various structures, including the gut and metanephros. The expression of MEP1A is notably biased, with higher expression observed in the adult kidney and large intestine, suggesting potential roles in these tissues.

Caution: Product has not been fully validated for medical applications. For research use only.

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