

Recombinant Human MEP1A Protein (His213-Val506), His tagged

Cat. No. MEP1A-3387H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant human MEP1A (His213-Val506) protein fused with His tag was expressed in E. coli.

Species

Human

Source

E.coli

ProteinLength


His213-Val506

Description

Meprin A subunit alpha, also known as MEP1A, and Endopeptidase-2, is a single-pass type I membrane protein which belongs to the peptidase M12A family. MEP1A contains one EGF-like domain, one MAM domain, and one MATH domain. Meprins are unique plasma membrane and secreted metalloproteinases that are highly regulated at the transcriptional and post-translational levels. Meprin alpha and beta subunits are abundantly expressed in kidney and intestinal epithelial cells, are secreted into the urinary tract and intestinal lumen, and are found in leukocytes and cancer cells under certain conditions. Meprins are capable of proteolytically degrading extracellular matrix proteins, proteolytically processing bioactive proteins, and play a role in inflammatory processes. Meprin A and B are highly regulated, secreted and cell-surface homo- and hetero-oligomeric enzymes. Meprins are abundantly expressed in kidney and intestine. The multidomain alpha and beta subunits have high sequence identity. They have very different substrate specificities, oligomerization potentials and are differentially regulated. Meprin A appears to be an important therapeutic

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	target and urinary excretion appears to be a potential biomarker of acute kidney injury (AKI).
Molecular Mass	33.96 kDa
Purity	>90 % as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	MEP1A meprin A, alpha (PABA peptide hydrolase) [Homo sapiens (human)]
Official Symbol	MEP1A
Synonyms	MEP1A; meprin A, alpha (PABA peptide hydrolase); meprin A subunit alpha; PPHA; PPH alpha; endopeptidase-2; PABA peptide hydrolase; bA268F1.1 (meprin A alpha (PABA peptide hydrolase); N-benzoyl-L-tyrosyl-P-amino-benzoic acid hydrolase subunit alpha;

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Gene ID	4224
mRNA Refseq	NM_005588
Protein Refseq	NP_005579
MIM	600388
UniProt ID	Q16819

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