

Recombinant Human MEP1A protein, His-tagged

Cat. No. MEP1A-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MEP1A, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	MEP1A, also known as meprin A subunit alpha, is a single-pass type I membrane protein which belongs to the peptidase M12A family. It 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. It is capable of proteolytically degrading extracellular matrix proteins, proteolytically processing bioactive proteins, and play a role in inflammatory processes.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	67.4kDa (589aa) 70-100kDa (SDS-PAGE under reducing conditions)
AA Sequence	ADPVPIKYLP EENVHDADFG EQKDISEINL AAGLDFQGD ILLQKSRNGL RDPNTRWTFP IPYILADNLG LNAKGAILYA FEMFRLKSCV DFKPYEGESS YIIFQQFDGCWSEVGDQHVG QNISIGQGCA YKAIIEHEIL HALGFYHEQS RTDRDDYVNI WWDQILSGYQ HNFDTYDDSL ITDLNTPYDY ESLMHYQPFS FNKNASVPTI TAKIPEFNSIIGQRLDFSAI DLERLNRMYN CTTHTLLDH CTFEKANICG MIQGTRDDTD WAHQDSAQAG EVDHTLLGQC TGAGYFMQFS

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TSSGSAEEAA LLESRIYPK RKQQCLQFFY KMTGSPSDRL VVWVRRDDST
GNVRKLVKVQ TFQGDDHWN KIAHVVLKEE QKFRYLFQGT KGDPQNSTGG
IYDDITLTE TPCPTGVWTV RNFSQVLENT SKGDKLQSPRFYNSEGYGFG
VTLYPNSRES SGYLRLAFHV CSGENDAILE WPVENRQVII TILDQEPDVR
NRMSSSMVFT TSKSHTSPAI NDTVIWDRPS RVGTYHTDCN
CFRSIDLGWSGFISHQMLKR RSFLKNDDLI IFVDFEDITH LSQHHHHHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity > 85% by SDS - PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.25mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name [MEP1A meprin A, alpha \(PABA peptide hydrolase\) \[Homo sapiens \]](#)

Official Symbol [MEP1A](#)

Synonyms MEP1A; meprin A subunit alpha; PPHA; PPH alpha; endopeptidase-2

Gene ID [4224](#)

mRNA Refseq [NM_005588](#)

Protein Refseq [NP_005579](#)

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MIM	600388
UniProt ID	Q16819
Chromosome Location	6p12-p11
Pathway	Protein digestion and absorption, organism-specific biosystem; Protein digestion and absorption, conserved biosystem;
Function	metal ion binding; metalloendopeptidase activity; peptidase activity; zinc ion binding;

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