

Active Recombinant Human Meprin A, Beta, His-tagged

Cat. No. MEP1B-1980H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MEP1B protein was expressed in Murine myeloma cellline. Leu21-Ser593 & Thr23-Ser593, both with a C-terminal 10-His tag.
Species	Human
Source	Mammalian Cells
Protein Length	21-593; 23-593 a.a.
Description	Meprins are multimeric proteases composed of α and β subunits, which are members of the astacin family of zinc endopeptidases. Both subunits form disulfide-linked homo- or heterooligomers, which are also referred to as Merpin A (composed of α subunits with or without β subunits) and MEP1B (composed of β subunits only). Although the two subunits share 42% identity in their amino acid sequence, they differ significantly in their oligomeric structure, posttranslational processing and subsequently cellular location, and substrate and peptide bond specificity.
Form	Supplied as a 0.2 μ m filtered solution in Tris, NaCl and Glycerol.
N-terminal Sequence	Leu21 & Thr23
Molecular Weight	66 kDa
Activity	Measured by its ability to cleave a fluorogenic peptide substrate, McaSEVNLDAEFRK(Dpn)RR-NH ₂ , The specific activity is > 350

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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	pmoles/min/μg, as measured under the described conditions.
Endotoxin Level	<1.0EU per 1μg of the protein by the LAL method.
SDS-PAGE	85 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70°C as supplied. 3 months, -20 to -70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	MEP1B meprin A, beta [Homosapiens]
Official Symbol	MEP1B
Synonyms	MEP1B; meprin A, beta; meprin A subunit beta; PPH beta; meprin B; endopeptidase-2; PABA peptide hydrolase; N-benzoyl-L-tyrosyl-P-amino-benzoic acid hydrolase subunit beta; N-benzoyl-L-tyrosyl-p-amino-benzoic acid hydrolase beta subunit; EC 3.4.24.63
Gene ID	4225
mRNA Refseq	NM_005925
Protein Refseq	NP_005916
MIM	600389

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UniProt ID	Q16820
Chromosome Location	18q12.2-q12.3
Pathway	Protein digestion and absorption
Function	metal ion binding; metalloendopeptidaseactivity; peptidase activity; zinc ion binding

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