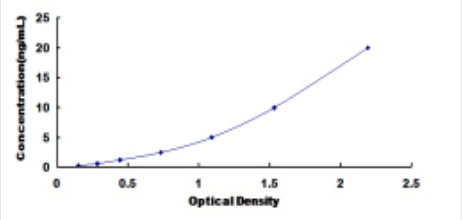
Meprin A Beta (MEP1b) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Meprin A Beta (MEP1b), ELISA Kit
Full Product Name	Human Meprin A Beta (MEP1b) ELISA Kit
Product Gene Name	MEP1b elisa kit
Product Synonym Names	PPH Beta; Endopeptidase-2; Meprin B; PABA Peptide Hydrolase; N-benzoyl-L-tyrosyl-P-amino-Benzoic Acid Hydrolase Subunit Beta
Species Reactivity	Human
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates and Other Biological Fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.117ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Meprin A Beta (MEP1b). No significant cross-reactivity or interference between Meprin A Beta (MEP1b) and analogues was observed.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Molecular Weight	79,571 Da
OMIM	X81333 mRNA
3D Structure	ModBase 3D Structure for Q16820
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Meprin A Beta (MEP1b) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Meprin A Beta (MEP1b) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
ISO Certification	Manufactured in an ISO 9001:2008 and ISO 13485:2003 Certified Laboratory.

Related Product Information for MEP1b elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Meprin A Beta (MEP1b). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Meprin A Beta (MEP1b). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Meprin A Beta (MEP1b), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Meprin A Beta (MEP1b) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of MEP1b elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MEP1b purchase	MBS2701437 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Meprin A Beta (MEP1b) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing MEP1b. The ELISA analytical biochemical technique of the MBS2701437 kit is based on MEP1b antibody-MEP1b antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect MEP1b antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, MEP1b. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of MEP1b elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MEP1b. It may not necessarily be applicable to this product.

NCBI GI #	153070264
NCBI GeneID	4225
NCBI Accession #	NP_005916.2
UniProt Primary Accession #	Q16820
UniProt Secondary Accession #	Q670J1; B7ZM35; B9EGL6
UniProt Related Accession #	Q16820
GenBank Nucleotide #	NM_005925.2
NCBI Official Full Name	meprin A subunit beta isoform 1
NCBI Official Synonym Full Names	meprin A subunit beta
NCBI Official Symbol	MEP1B
UniProt Protein Name	Meprin A subunit beta
UniProt Synonym Protein Names	Endopeptidase-2; Meprin B; N-benzoyl-L-tyrosyl-P-amino-benzoic acid hydrolase subunit beta; PABA peptide hydrolase; PPH beta
Protein Family	Meprin
UniProt Gene Name	MEP1B
NCBI Protein Information	meprin A subunit beta

NCBI Summary for MEP1b	Meprins are multidomain zinc metalloproteases that are highly expressed in mammalian kidney and intestinal brush border membranes, and in leukocytes and certain cancer cells. They are involved in the hydrolysis of a variety of peptide and protein substrates, and have been implicated in cancer and intestinal inflammation. Mature meprins are oligomers of evolutionarily related, but separately encoded alpha and/or beta subunits. Homooligomers of alpha subunit are secreted, whereas, oligomers containing the beta subunit are plasma membrane-bound. This gene encodes the beta subunit. Targeted disruption of this gene in mice affects embryonic viability, renal gene expression profiles, and distribution of the membrane-associated alpha subunit in kidney and intestine. [provided by RefSeq, Oct 2011]
UniProt Comments for MEP1b	Membrane metallopeptidase that sheds many membrane-bound proteins. Exhibits a strong preference for acidic amino acids at the P1' position. Known substrates include: FGF19, VGFA, IL1B, IL18, procollagen I and III, E-cadherin, KLK7, gastrin, ADAM10, tenascin-C. The presence of several pro-inflammatory cytokine among substrates implicate MEP1B in inflammation. It is also involved in tissue remodeling due to its capability to degrade extracellular matrix components.
Research Articles on MEP1b	**1.** TSPAN8 might be important for the orchestration of meprin beta at the cell surface with impact on certain proteolytic processes
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-elisa-kits/meprin-a-beta-mep1b/2701437