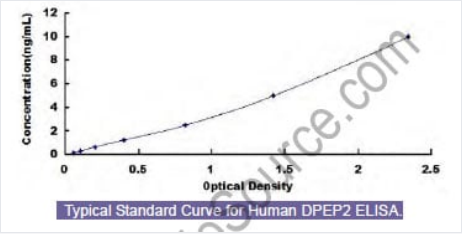
Dipeptidase 2 (DPEP2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Dipeptidase 2 (DPEP2), ELISA Kit
Full Product Name	Human Dipeptidase 2 (DPEP2) ELISA Kit
Product Gene Name	DPEP2 elisa kit
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue homogenates, cell lysates and other biological fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.069ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of DPEP2. No significant cross-reactivity or interference between DPEP2 and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level DPEP2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DPEP2 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	43,828 Da
OMIM	AJ295149 mRNA
3D Structure	ModBase 3D Structure for Q9H4A9
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for DPEP2 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of DPEP2 in human tissue homogenates, cell lysates, and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to DPEP2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to DPEP2. 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 DPEP2, 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 DPEP2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of DPEP2 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 DPEP2 purchase	MBS455700 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Dipeptidase 2 (DPEP2) 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 DPEP2. The ELISA analytical biochemical technique of the MBS455700 kit is based on DPEP2 antibody-DPEP2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DPEP2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DPEP2. 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 Standard Curve/Testing Data of DPEP2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DPEP2. It may not necessarily be applicable to this product.

NCBI GI #	11641269
NCBI GeneID	64174
NCBI Accession #	NP_071750.1
UniProt Primary Accession #	Q9H4A9
UniProt Secondary Accession #	Q6UX92; Q8TC95; B2RCF8
UniProt Related Accession #	Q9H4A9
GenBank Nucleotide #	NM_022355.3
NCBI Official Full Name	dipeptidase 2 isoform 1
NCBI Official Synonym Full Names	dipeptidase 2
NCBI Official Symbol	DPEP2
NCBI Official Synonym Symbols	MBD2
UniProt Protein Name	Dipeptidase 2
Protein Family	Dipeptidase
UniProt Gene Name	DPEP2
NCBI Protein Information	dipeptidase 2
NCBI Summary for DPEP2	DPEP2 belongs to the membrane-bound dipeptidase (EC 3.4.13.19) family. These enzymes hydrolyze a variety of dipeptides, including leukotriene D4, the beta-lactam ring of some antibiotics, and cystinyl-bis-glycine (cys-bis-gly) formed during glutathione degradation (Habib et al., 2003 [PubMed 12738806]).[supplied by OMIM, Mar 2008]
UniProt Comments for DPEP2	Probable metalloprotease which hydrolyzes leukotriene D4 (LTD4) into leukotriene E4 (LTE4).
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.
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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.

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