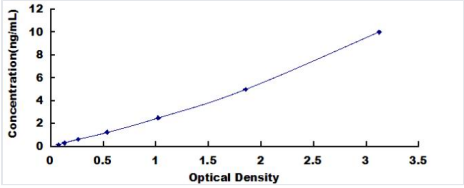
Dipeptidase 1, Renal (DPEP1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Dipeptidase 1, Renal (DPEP1), ELISA Kit
Full Product Name	Human Dipeptidase 1, Renal (DPEP1) ELISA Kit
Product Gene Name	DPEP1 elisa kit
Product Synonym Names	RDP; MBD1; MDP; Dehydropeptidase-I; Microsomal dipeptidase; Renal dipeptidase
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, Plasma, Tissue Homogenates or Other Biological Fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.050ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	45,674 Da
OMIM	179780
3D Structure	ModBase 3D Structure for P16444
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for DPEP1 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to DPEP1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to DPEP1. 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 DPEP1, 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 DPEP1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of DPEP1 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 DPEP1 purchase	MBS458906 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Dipeptidase 1, Renal (DPEP1) 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 DPEP1. The ELISA analytical biochemical technique of the MBS458906 kit is based on DPEP1 antibody-DPEP1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DPEP1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DPEP1. 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 DPEP1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DPEP1. It may not necessarily be applicable to this product.

NCBI GI #	189458885
NCBI GeneID	1800
NCBI Accession #	NP_001121613.1
UniProt Primary Accession #	P16444
UniProt Secondary Accession #	Q96AK2; D3DX80
UniProt Related Accession #	P16444
GenBank Nucleotide #	NM_001128141.2
NCBI Official Full Name	dipeptidase 1
NCBI Official Synonym Full Names	dipeptidase 1
NCBI Official Symbol	DPEP1
NCBI Official Synonym Symbols	MDP; RDP; MBD1
UniProt Protein Name	Dipeptidase 1
UniProt Synonym Protein Names	Dehydropeptidase-I; Microsomal dipeptidase; Renal dipeptidase; hRDP
Protein Family	Dipeptidase
UniProt Gene Name	DPEP1
UniProt Synonym Gene Names	MDP; RDP; hRDP
NCBI Protein Information	dipeptidase 1
NCBI Summary for DPEP1	The protein encoded by this gene is a kidney membrane enzyme involved in the metabolism of glutathione and other similar proteins by dipeptide hydrolysis. The encoded protein is known to regulate leukotriene activity by catalyzing the conversion of leukotriene D4 to leukotriene E4. This protein uses zinc as a cofactor and acts as a disulfide-linked homodimer. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jan 2012]
UniProt Comments for DPEP1	Hydrolyzes a wide range of dipeptides. Implicated in the renal metabolism of glutathione and its conjugates. Converts leukotriene D4 to leukotriene E4; it may play an important role in the regulation of leukotriene activity.
Research Articles on DPEP1	**1.** The results suggest that DPEP1 promotes cancer metastasis by regulating E-cadherin plasticity and that it might be a potential therapeutic target for preventing the progression of colon cancer.
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