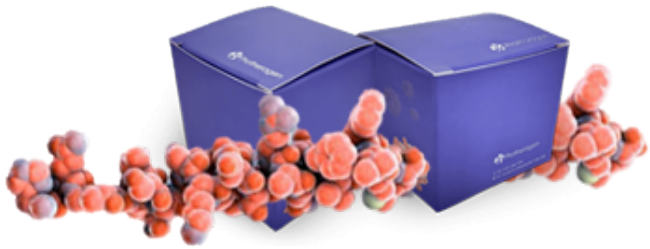
Protheragen Obesity



Rat meprin A subunit alpha (MEP1A) ELISA kit (0.156-10 ng/mL)

Cat. No.:	0126WXX-1045
Assay Type:	Quantitative sandwich ELISA
Target Species:	Rat
Assay Target:	MEP1A
Size:	48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Rat meprin A subunit alpha (MEP1A) ELISA kit (0.156-10 ng/mL) is an ELISA-based *in vitro* research tool designed specifically for the quantitative detecti on of MEP1A in rat samples with a range of 0.156-10 ng/mL and a minimum detectab le dose (sensitivity) of 0.078 ng/mL. The kit is highly sensitive and easy to us e.
Assay Principle	The microtiter plate provided in this kit is pre-coated with an antibody specifi c to MEP1A. Standards or samples are added to the designated microtiter plate we lls with a biotin-conjugated polyclonal antibody preparation specific for MEP1A. Subsequently, avidin-conjugated HRP is added to each microplate well and incuba ted. A TMB substrate solution is then introduced to each well. Only those wells containing the MEP1A-biotin-avidin complex will exhibit a change in color. The e nzyme-substrate reaction is terminated by a sulphuric acid solution, and the abs orbance is measured at 450 nm ± 2 nm. The concentration of MEP1A is determined b y comparing the sample O.D. to the standard curve.
Background	MEP1A is a constituent subunit of the zinc-dependent metalloproteinase Meprin A, highly expressed primarily in the renal brush border and intestine. Its core fu nction is as an endopeptidase that hydrolyzes peptide bonds, participating in pr otein digestion, processing specific peptides, and degrading the extracellular m atrix (ECM). It is associated with glucose and insulin metabolism.
Synonyms	Endopeptidase-2; *N*-benzoyl-L-tyrosyl-P-amino-benzoic acid hydrolase subun it alpha; PABA peptide hydrolase; PPH alpha; PPHA

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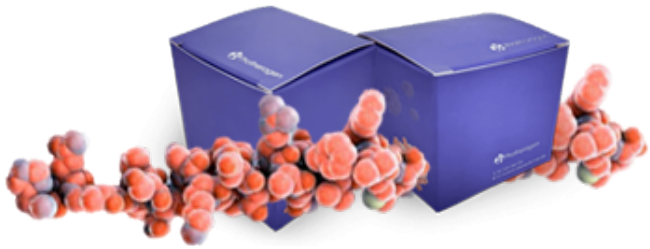

Formula Weight	85,123 Da
Applications	Rat meprin A subunit alpha (MEP1A) ELISA kit (0.156-10 ng/mL) is used to quantif y MEP1A in serum, plasma, whole blood, tissue, saliva, urine, feces, and other f luids of rat, providing data to support research in a wide range of areas, inclu ding metabolism, *etc*.
Research Area	Metabolism

Specification

Sample Type	Serum; Plasma; Whole blood; Other fluid; Tissue; Saliva; Urine; Feces
Detection Range	0.156-10 ng/mL
Sensitivity	0.078 ng/mL
Precision (Intra-assay)	CV≤4.5%
Precision (Inter-assay)	CV≤8.6%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Recovery	1.06
Storage	Store at -20°C.

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