

Human Prolyl Endopeptidase (PREP) ELISA Kit | PREP elisa kit

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CATALOG #
AAA331352

REACTIVITY
Human

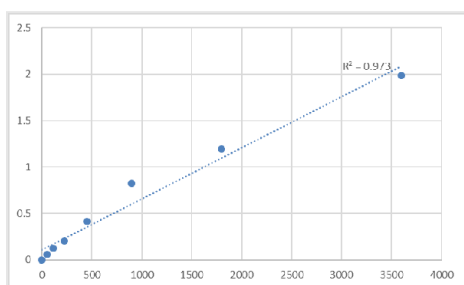
PRODUCT SYNONYMS

Prolyl Endopeptidase (PREP); Human Prolyl Endopeptidase (PREP) ELISA Kit; PREP; RP3-355L5.1; MGC16060; PE; PEP; dJ355L5.1 (prolyl endopeptidase); post-proline cleaving enzyme; prolyl oligopeptidase; PREP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Prolyl endopeptidase (PREP) ELISA Kit has high sensitivity and excellent specificity for detection of Human PREP. No significant cross-reactivity or interference between Human PREP and analogues was observed.
Sequence Length	710
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Prolyl endopeptidase (PREP) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PREP elisa kit	Description: This Human Prolyl endopeptidase (PREP) ELISA Kit employs a two-site sandwich ELISA to quantitate PREP in samples. An antibody specific for PREP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PREP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PREP is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PREP bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Prolyl endopeptidase (PE) also known as prolyl oligopeptidase or post-proline cleaving enzyme is an enzyme that in humans is encoded by the PREP gene. Prolyl endopeptidase is a large cytosolic enzyme that belongs to a distinct class of serine peptidases. It was first described in the cytosol of rabbit brain as an oligopeptidase, which degrades the nonapeptide bradykinin at the Pro-Phe bond.[5] The enzyme is involved in the maturation and degradation of peptide hormones and neuropeptides such as alpha-melanocyte-stimulating hormone, luteinizing hormone-releasing hormone (LH-RH), thyrotropin-releasing hormone, angiotensin, neurotensin, oxytocin, substance P and vasopressin. PREP cleaves peptide bonds at the C-terminal side of proline residues. Its activity is confined to action on oligopeptides of less than 10 kD and it has an absolute requirement for the trans-configuration of the peptide bond preceding proline. Prolyl endopeptidases are involved in the maturation and degradation of peptide hormones and neuropeptides.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	41349456
NCBI GeneID	5550
NCBI Accession #	NP_002717.3
NCBI GenBank Nucleotide #	NP_002717.3
UniProt Accession #	P48147
NCBI Official Full Name	prolyl endopeptidase
NCBI Official Synonym Full Names	prolyl endopeptidase
NCBI Official Symbol	PREP
NCBI Official Synonym Symbols	PE; PEP
NCBI Protein Information	prolyl endopeptidase
UniProt Protein Name	Prolyl endopeptidase
UniProt Gene Name	PREP
UniProt Synonym Gene Names	PEP; PE
UniProt Entry Name	PPCE_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.