Human Protein-L-Isoaspartate (PCMT1) ELISA Kit | PCMT1 elisa kit

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CATALOG #	REACTIVITY
AAA331458	**Human**

PRODUCT SYNONYMS

Protein-L-Isoaspartate (PCMT1); Human Protein-L-Isoaspartate (PCMT1) ELISA Kit; PCMT1; L-isoasparty/D-aspartyl methyltransferase; OTTHUMP00000017400; protein-L-isoaspartate (D-aspartate) O-methyltransferase 1; PCMT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Protein-L-isoaspartate (PCMT1) ELISA Kit has high sensitivity and excellent specificity for detection of Human PCMT1. No significant cross-reactivity or interference between Human PCMT1 and analogues was observed.
Sequence Length	286
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 Protein-L-isoaspartate (PCMT1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PCMT1 elisa kit	Description: This Human Protein-L-isoaspartate (PCMT1) ELISA Kit employs a two-site sandwich ELISA to quantitate PCMT1 in samples. An antibody specific for PCMT1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PCMT1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PCMT1 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 PCMT1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Three classes of protein carboxyl methyltransferases, distinguished by their methyl-acceptor substrate specificity, have been found in prokaryotic and eukaryotic cells. The type II enzyme catalyzes the transfer of a methyl group from S-adenosyl-L-methionine to the free carboxyl groups of D-aspartyl and L-isoaspartyl residues. These methyl-accepting residues result from the spontaneous deamidation, isomerization, and racemization of normal L-aspartyl and L-asparaginyl residues and represent sites of covalent damage to aging proteins PCMT1 (EC 2.1.1.77) is a protein repair enzyme that initiates the conversion of abnormal D-aspartyl and L-isoaspartyl residues to the normal L-aspartyl form.

NCBI AND UNIPROT INFORMATION

NCBI GI #	354983493
NCBI GeneID	5110
NCBI Accession #	NP_001238978.1
NCBI GenBank Nucleotide #	NP_001238978.1
UniProt Accession #	P22061
NCBI Official Full Name	protein-L-isoaspartate(D-aspartate) O-methyltransferase isoform 2
NCBI Official Synonym Full Names	protein-L-isoaspartate (D-aspartate) O-methyltransferase
NCBI Official Symbol	PCMT1
NCBI Official Synonym Symbols	PIMT
NCBI Protein Information	protein-L-isoaspartate(D-aspartate) O-methyltransferase
UniProt Protein Name	Protein-L-isoaspartate(D-aspartate) O-methyltransferase
UniProt Gene Name	**PCMT1**
UniProt Synonym Gene Names	PIMT
UniProt Entry Name	PIMT_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.

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Online datasheet: https://stage.aaabiotech.com/human-elisa-kits/protein-l-isoaspartate-pcmt1/331458