

Human carbamoyl-phosphate synthetase 1, mitochondrial ELISA Kit | CPS1 elisa kit

Human Carbamoyl-phosphate synthase [ammonia], mitochondrial, CPS1 ELISA Kit

CATALOG #
AAA113013

REACTIVITY
Human

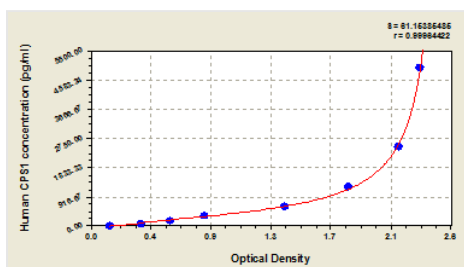
PRODUCT SYNONYMS

carbamoyl-phosphate synthetase 1; mitochondrial; Human Carbamoyl-phosphate synthase [ammonia]; CPS1 ELISA Kit; mitochondrial (CPS1) ELISA kit; CPSase I; carbamoylphosphate synthetase I; CPS1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of human CPS1. No significant cross-reactivity or interference between human CPS1 and analogues was observed.
Sequence Length	1,500
Samples	Serum, plasma, tissue homogenates.
Assay Type	Sandwich
Detection Range	78 pg/ml-5000 pg/ml.
Sensitivity	Typically less than 19.5 pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CPS1 elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for CPS1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CPS1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CPS1 is added to the wells. After washing, avidin 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 CPS1 bound in the initial step. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	169790915
NCBI GeneID	1373
NCBI Accession #	NP_001116105.1
NCBI GenBank Nucleotide #	NM_001122633.2
UniProt Accession #	P31327; O43774; Q53TL5; Q59HF8; Q7Z5I5; B7Z818; J3KQL0
Molecular Weight	164,939 Da
NCBI Official Full Name	carbamoyl-phosphate synthase
NCBI Official Synonym Full Names	carbamoyl-phosphate synthase 1, mitochondrial
NCBI Official Symbol	CPS1
NCBI Official Synonym Symbols	PHN; CPSASE1
NCBI Protein Information	carbamoyl-phosphate synthase [ammonia], mitochondrial; carbamoyl-phosphate synthase [ammonia], mitochondrial; carbamoylphosphate synthetase I
UniProt Protein Name	Carbamoyl-phosphate synthase [ammonia], mitochondrial
UniProt Gene Name	CPS1
UniProt Synonym Gene Names	CPSase I
UniProt Entry Name	CPSM_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/cps1-human-elisa-kits/carbamoyl-phosphate-synthetase-1-mitochondrial/113013>