

Human UMP CMP kinase (CMPK1) ELISA Kit | CMPK1 elisa kit

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CATALOG #
AAA245070

REACTIVITY
Human

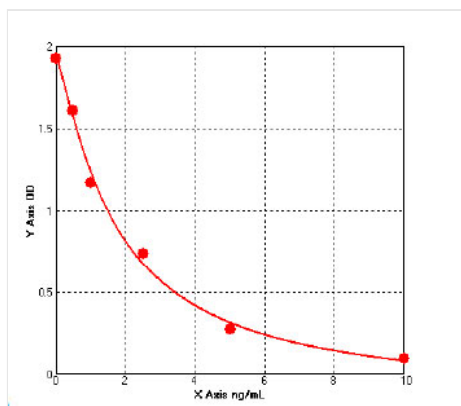
PRODUCT SYNONYMS

UMP CMP kinase (CMPK1); Human UMP CMP kinase (CMPK1) ELISA Kit; CMPK1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of CMPK1. No significant cross-reactivity or interference between CMPK1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CMPK1 and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CMPK1 elisa kit	Principle of the Assay: CMPK1 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-CMPK1 antibody and an CMPK1-HRP conjugate. The assay sample and buffer are incubated together with CMPK1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CMPK1 concentration since CMPK1 from samples and CMPK1-HRP conjugate compete for the anti-CMPK1 antibody binding site. Since the number of sites is limited, as more sites are occupied by CMPK1 from the sample, fewer sites are left to bind CMPK1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CMPK1 concentration in each sample is interpolated from this standard curve. Intended Uses: This CMPK1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CMPK1. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for CMPK1 elisa kit	Epigenetics and Nuclear Signaling

NCBI AND UNIPROT INFORMATION

NCBI GI #	12644008
NCBI GeneID	51727
Molecular Weight	16,548 Da
NCBI Official Full Name	UMP-CMP kinase
NCBI Official Synonym Full Names	cytidine monophosphate (UMP-CMP) kinase 1, cytosolic
NCBI Official Symbol	CMPK1
NCBI Official Synonym Symbols	CK; CMK; UMK; CMPK; UMPK; UMP-CMPK
NCBI Protein Information	UMP-CMP kinase; dCMP kinase; UMP/CMP kinase; cytidylate kinase; deoxycytidylate kinase; uridine monophosphate kinase; nucleoside-diphosphate kinase; uridine monophosphate/cytidine monophosphate kinase
UniProt Protein Name	UMP-CMP kinase
UniProt Gene Name	CMPK1
UniProt Synonym Gene Names	CMK; CMPK; UCK; UMK; UMPK; CK; dCMP kinase; UMP/CMP kinase; UMP/CMPK
UniProt Entry Name	KCY_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/ump-cmp-kinase-cmpk1/245070>