

Recombinant Human CMPK1, His-tagged

Cat. No. CMPK1-31668TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human UMP/CMP kinase with an N terminal His tag; 248 amino acids including tag, predicted MWt: 28kDa.
Species	Human
Source	E.coli
ProteinLength	228 amino acids
Description	Uridine monophosphate (UMP)/cytidine monophosphate (CMP) kinase (EC 2.7.4.4) catalyzes the phosphoryl transfer from ATP to UMP, CMP, and deoxy-CMP (dCMP), resulting in the formation of ADP and the corresponding nucleoside diphosphate. These nucleoside diphosphates are required for cellular nucleic acid synthesis (Liou et al.
Conjugation	HIS
Molecular Weight	28.000kDa inclusive of tags
Tissue specificity	Ubiquitously expressed.
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 20% Glycerol, 20mM Tris HCl, 100mM Sodium chloride, 1mM DTT, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MLSRCRSGLL HVLGLSFLQ TRRPILLCSP RLMKPLVVFV LGGPGAGKGT QCARIVEKYG YTHLSAGELL RDERKNPDSQ YGELIEKYIK EGKIVPVEIT ISLLKREMDQ TMAANAQKNK FLIDGFPRNQ DNLQGWNKTM DGKADVSVFL FFDCNNEICI ERCLER GKSS GRSDDNRESL EKRIQTYLQS TKPIIDL YEE MGKVKKIDAS KSVDEVFDEV VQIFDKEG
Sequence Similarities	Belongs to the adenylate kinase family.
GENE INFORMATION	
Gene Name	CMPK1 cytidine monophosphate (UMP-CMP) kinase 1, cytosolic [Homo sapiens]
Official Symbol	CMPK1
Synonyms	CMPK1; cytidine monophosphate (UMP-CMP) kinase 1, cytosolic; CMPK, cytidylate kinase; UMP-CMP kinase; Cytidine monophosphate kinase; UMP CMP kinase; UMP CMPK;
Gene ID	51727
mRNA Refseq	NM_001136140
Protein Refseq	NP_001129612

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MIM	191710
Uniprot ID	P30085
Chromosome Location	1p34.1-p33
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Pyrimidine metabolism, organism-specific biosystem; Pyrimidine metabolism, conserved biosystem;
Function	ATP binding; cytidylate kinase activity; nucleotide binding; phosphotransferase activity, phosphate group as acceptor; transferase activity;

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