

Cytidine Monophosphate Kinase 1 Recombinant Protein | CMPK1 recombinant protein

Recombinant Human Cytidine Monophosphate Kinase 1

CATALOG # AAA38921	HOST E Coli
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PRODUCT SYNONYMS

Cytidine Monophosphate Kinase 1; Recombinant Human Cytidine Monophosphate Kinase 1; CMPK1 Human; Cytidine Monophosphate Kinase 1 Human Recombinant; UMP-CMP kinase; Cytidine monophosphate kinase; Cytidylate kinase; Deoxycytidylate kinase; Uridine monophosphate kinase; Uridine monophosphate/cytidine monophosphate kinase; UMP/CMP kinase; UMP/CMPK; CMPK1; CMK; CMPK; UCK; UMK; UMPK; UMP-CMPK; RP11-51112.1; CMPK1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	CMPK1 solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 1mM DTT and 100mM NaCl. Sterile filtered colorless solution.
Sequence	MGSSHHH HHHSSGLVPR GSHMLS RCRSGLLHVL GLSFLQTRR PILLCSPLRM KPLVVFVLGG PGAGKGTQCA RIVEKYGYTH LSAGELLRDE RKNPDSQYGE LIEKYIKEGK IVPVEITISL LKREMDQTMA ANAQKNKFLI DGFPRNQDNL QGWNKTMDGK ADVSFVLFFD CNNEICIERC LERGKSSGRS DDNRESLEKR IQTYLQSTKP IIDLYEEMGK VKKIDASKSV DEVFDEVVQI FDKEG
Sequence Length	179
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CMPK1 recombinant protein	Description: CMPK1 Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 248 amino acids (1-228) and having a molecular mass of 28kDa. CMPK1 is fused to a 20 a.a His-Tag at N-terminus and purified by proprietary chromatographic techniques. Introduction: UMP-CMP kinase and deoxycytidylate kinase (CMPK1) is an enzyme which catalyzes the phosphoryl transfer from ATP to UMP, CMP and dCMP. This enzymatic reaction brings about the formation of ADP and the corresponding nucleoside diphosphate that are necessary for cellular nucleic acid synthesis. In addition, CMPK1 has a significant role in the activation of pyrimidine analogs, which are clinically useful anti-cancer and anti-viral drugs.
Product Categories/Family for CMPK1 recombinant protein	Protein Kinases; Enzymes; Protein Kinases

NCBI AND UNIPROT INFORMATION

NCBI GI #	209915597
NCBI GeneID	51727
NCBI Accession #	NP_001129612.1
NCBI GenBank Nucleotide #	NM_001136140.1

UniProt Accession #	P30085 ; Q53GB7 ; Q5SVZ0 ; Q96C07 ; Q9UBQ8 ; Q9UIA2 ; B4DPU7 ; E9PGI8
NCBI Official Full Name	UMP-CMP kinase isoform b
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; CK; CMPK1; UMP/CMP kinase; cytidylate kinase; dCMP kinase; deoxycytidylate kinase; nucleoside-diphosphate kinase; uridine monophosphate kinase; uridine monophosphate/cytidine monophosphate kinase
UniProt Protein Name	UMP-CMP kinase
UniProt Gene Name	CMPK1
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.

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Online datasheet: <https://stage.aaabiotech.com/cmpk1-recombinant-protein-e-coli/38921>