

Datasheet for ABIN7548779

Cytidine Monophosphate (UMP-CMP) Kinase 1, Cytosolic (CMPK1) (AA 1-196) protein (His tag)



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Overview

Quantity:	1 mg
Target:	Cytidine Monophosphate (UMP-CMP) Kinase 1, Cytosolic (CMPK1)
Protein Characteristics:	AA 1-196
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag

Product Details

Purpose:	Custom-made recombinant CMPK1 Protein expressed in mammalian cells.
Sequence:	MKPLVVFVLG GPGAGKGTQC ARIVEKYGYT HLSAGELLRD ERKNPDSQYG ELIEKYIKEG KIVPVEITIS LLKREMDQTM AANAQKNKFL IDGFPRNQDN LQGWNKTM DG KADVSFVLFF DCNNEICIER CLERGKSSGR SDDNRESLEK RIQTYLQSTK PIIDLYEEMG KVKKIDASKS VDEVFDEVVQ IFDKEG Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and

Product Details

transmembrane proteins.

- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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Target Details

Target:	Cytidine Monophosphate (UMP-CMP) Kinase 1, Cytosolic (CMPK1)
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Alternative Name:	CMPK1 (CMPK1 Products)
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Background:	UMP-CMP kinase (EC 2.7.4.14) (Deoxycytidylate kinase) (CK) (dCMP kinase) (Nucleoside-diphosphate kinase) (EC 2.7.4.6) (Uridine monophosphate/cytidine monophosphate kinase) (UMP/CMP kinase) (UMP/CMPK),FUNCTION: Catalyzes the phosphorylation of pyrimidine nucleoside monophosphates at the expense of ATP. Plays an important role in de novo pyrimidine nucleotide biosynthesis. Has preference for UMP and CMP as phosphate acceptors. Also displays broad nucleoside diphosphate kinase activity. {ECO:0000255 HAMAP-Rule:MF_03172, ECO:0000269 PubMed:10462544, ECO:0000269 PubMed:11912132, ECO:0000269 PubMed:23416111}.
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Molecular Weight:	22.2 kDa
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UniProt:	P30085
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Pathways:	Nucleotide Phosphorylation, Ribonucleoside Biosynthetic Process
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Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months