

UMP-CMP kinase/CMPK1 Protein, Human (sf9, His)

Cat. No.:	HY-P77273
Synonyms:	Deoxycytidylate kinase; CK; CMK; CMPK; UMK; UMPK
Species:	Human
Source:	Sf9 insect cells
Accession:	P30085 (M1-G196)
Gene ID:	51727
Molecular Weight:	Approximately 27 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 10% glycerol
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

The UMP-CMP kinase, also known as CMPK1, is a crucial enzyme that catalyzes the phosphorylation of pyrimidine nucleoside monophosphates utilizing ATP as a phosphate donor. This enzymatic activity holds significance in de novo pyrimidine nucleotide biosynthesis, representing a key step in the synthesis of essential cellular components. CMPK1 exhibits a preference for uridine monophosphate (UMP) and cytidine monophosphate (CMP) as phosphate acceptors in this process. Additionally, CMPK1 displays broad nucleoside diphosphate kinase activity, emphasizing its versatility in catalyzing the transfer of phosphate groups between different nucleoside diphosphates. The multifaceted functions of CMPK1 underscore its pivotal role in cellular nucleotide metabolism and its potential implications for various cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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