
Product Data Sheet

Product Name: CMPK1 Human

Cat. No.: GP22471

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MLSRCRSGLL HVLGLSFLQ TRRPILLCSP RLMKPLVVFV LGPGAGKGT QCARIVEKYG YTHLSAGELL RDERKNPDSQ YGELIEKYIK EGKIVPVEIT ISLLKREMDQ TMAANAQKNK FLIDGFPRNQ DNLQGWNTM DGKADVSVFL FDCNNEICI ERCLERKSS GRSDDNRESL EKRIQTYLQS TKPIIDLIEE MGKVKKIDAS KSVDEVFDEV VQIFDKEG.		
Formulation	CMPK1 solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 1mM DTT and 100mM NaCl.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°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.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

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 a20 a.a His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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