

CMPK1 Human

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.

Catalog #: PKPS-009

For research use only.

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, RP11-511I2.1

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MLSRCRSGLL HVLGLSFLQ
TRRPILLCSPLMKPLVVFV LGGPGAGKGT QCARIVEKYG YTHLSAGELL RDERKNPDSQ
YGELIEKYIK EGKIVPEIT ISLLKREMDQ TMAANAQKNK FLIDGFPRNQ DNLQGWNKTM
DGKADVSVFL FFDCCNEICI ERCLERKSS GRSDDNRESL EKRIQTYLQS TKPIIDLYEE
MGKVKKIDAS KS

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

CMPK1 solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 1mM DTT and 100mM NaCl.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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