

# Recombinant Human CMPK1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CMPK1-833H    **Lot. No.** (See product label)

## SPECIFICATION

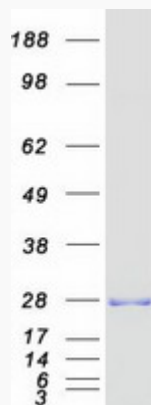
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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | CMPK1 MS Standard C13 and N15-labeled recombinant protein (NP_057392) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | This gene encodes one of the enzymes required for cellular nucleic acid biosynthesis. This enzyme catalyzes the transfer of a phosphate group from ATP to CMP, UMP, or dCMP, to form the corresponding diphosphate nucleotide. Alternate splicing results in both coding and non-coding transcript variants. |
| <b>Molecular Mass</b>   | 26 kDa                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MLSRCRSRLHVLGLSFLQTRRPILLCSPLMKPLVVFVLGGPGAGKGTQCARIVE<br>KYGYTHLSAGELLRDERKNPDSQYGELIEKYIKEGKIVPEITISLLKREMDQTMAAN<br>AQKNKFLIDGFPRNQDNLQGWNKTMKGADVSVLFFDCNNEICIERCLERGKSSG<br>RSDDNRESLEKRIQTYLQSTKPIIDLYEEMGKVKKIDASKSVDEVFDEVVQIFDKEGT<br>RTRPLEQKLISEEDLAANDILDYKDDDDKV                                |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                  |
| <b>Stability</b>        | Stable for 3 months from receipt of products under proper storage and handling conditions.                                                                                                                                                                                                                   |

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|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>          | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                |
| <b>Concentration</b>    | 50 µg/mL as determined by BCA                                                                                                                                                                                                                                                                                                                              |
| <b>Storage Buffer</b>   | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                                                                                                                                                                                                                                                                                    |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>        | CMPK1 cytidine/uridine monophosphate kinase 1 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b>  | CMPK1                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>         | CMPK1; cytidine monophosphate (UMP-CMP) kinase 1, cytosolic; CMPK, cytidylate kinase; UMP-CMP kinase; Cytidine monophosphate kinase; UMP CMP kinase; UMP CMPK; UMP/CMP kinase; cytidylate kinase; deoxycytidylate kinase; uridine monophosphate kinase; uridine monophosphate/cytidine monophosphate kinase; CMK; UMK; CMPK; UMPK; UMP-CMPK; RP11-511I2.1; |
| <b>Gene ID</b>          | 51727                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>      | NM_016308                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>   | NP_057392                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>              | 191710                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>       | P30085                                                                                                                                                                                                                                                                                                                                                     |

**SDS-PAGE**

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