

## Recombinant Mouse Cmpk1 Protein, Myc/DDK-tagged

**Cat. No.** Cmpk1-2208M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length cytidine monophosphate (UMP-CMP) kinase 1 (Cmpk1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                          |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 25.8 kDa                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                            |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                          |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                         |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                       |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                  |

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## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Cmpk1 cytidine monophosphate (UMP-CMP) kinase 1 [ Mus musculus (house mouse) ]                                                                                                                                                                                                                                                                                                                                  |
| <b>Official Symbol</b> | Cmpk1                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>        | Cmpk1; cytidine monophosphate (UMP-CMP) kinase 1; CK; Cmp; Cmpk; UMP-CMPk; 0610011D08Rik; UMP-CMP kinase; UMP/CMPK; cytidine monophosphate kinase; cytidylate kinase 1; dCMP kinase; deoxycytidylate kinase; likely ortholog of H. sapiens UMP-CMP kinase (UMP-CMPK); nucleoside-diphosphate kinase; uridine monophosphate kinase; uridine monophosphate/cytidine monophosphate kinase; EC 2.7.4.14; EC 2.7.4.6 |
| <b>Gene ID</b>         | 66588                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_025647                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>  | NP_079923                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>      | Q9DBP5                                                                                                                                                                                                                                                                                                                                                                                                          |

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