

# Recombinant Rat DCPS Protein, His-tagged

**Cat. No.** DCPS-1798R    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Recombinant Rat DCPS protein with a His-tag was expressed in E. coli                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Predicted to enable RNA 7-methylguanosine cap binding activity; identical protein binding activity; and m7G(5')pppN diphosphatase activity. Predicted to be involved in cellular response to menadione; mRNA metabolic process; and negative regulation of programmed cell death. Predicted to be located in cytosol; mitochondrion; and nucleoplasm. Predicted to be active in P-body and nucleus. Orthologous to human DCPS (decapping enzyme, scavenger). |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 40.9 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MGSSHHHHHSSGLVPRGSHMADTAPQLKRKREQEAAEAETPSTEEKEAGVGNG<br>TSAPVRLPFSGFRVQKVLRESARDKIIFLHGKVNEDSGDTHGEDAVVILEKTPFQVEH<br>VAQLLTGNPELKLQFSNDIYSTYNLFPPRHLSDIKTTVVYPASEKHLQKYMQRQDLRLI<br>RETGDDYRSLTLPYLESQSLSIQWVYNILDKKAEADRIVFENPDPSDGFVLIPDLKWN<br>QQQLDDLYLIAICHRRGIRSLRDLTPEHLPLLRNILEGQEAILEKRYQVTGDRLRVYLH<br>YLPSYYHLHVHFTALGFEAPGSGVERAHLAEVIENTLECDPKHYQRRTLTALRTDD<br>PLLQLLQKAQQP                                                                  |
| <b>Purity</b>           | >90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                             |

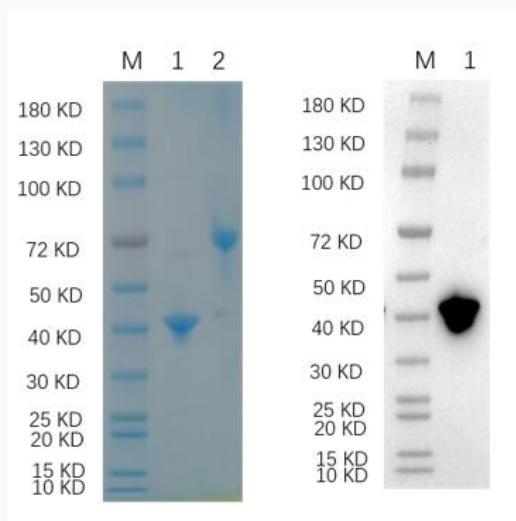
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| <b>Storage</b>          | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                 |
| <b>Concentration</b>    | 0.16 mg/mL                                                                                                                                                                                          |
| <b>Storage Buffer</b>   | 50mM Tris, 300mM NaCl, pH 8.0                                                                                                                                                                       |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                     |
| <b>Gene Name</b>        | Dcps decapping enzyme, scavenger [ Rattus norvegicus ]                                                                                                                                              |
| <b>Official Symbol</b>  | Dcps                                                                                                                                                                                                |
| <b>Synonyms</b>         | DCPS; decapping enzyme, scavenger; scavenger mRNA-decapping enzyme DcpS; DCS-1; mRNA decapping enzyme; histidine triad protein member 5; hint-related 7meGMP-directed hydrolase; Hint-5; MGC124934; |
| <b>Gene ID</b>          | 266605                                                                                                                                                                                              |
| <b>mRNA Refseq</b>      | NM_153302                                                                                                                                                                                           |
| <b>Protein Refseq</b>   | NP_695214                                                                                                                                                                                           |

**SDS-PAGE:**



Reducing 12% SDS-PAGE and WB analysis profile of purified Rat DCPS

1. Rat DCPS

2. BSA