

# Recombinant Rhesus monkey DCPS Protein, His-tagged

Cat. No. DCPS-01R Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Rhesus monkey DCPS protein with a His-tag was expressed in E. coli
<b>Species</b>	Rhesus macaque
<b>Source</b>	E.coli
<b>Description</b>	<p>This gene encodes a member of the histidine triad family of pyrophosphatases that removes short mRNA fragments containing the 5' mRNA cap structure, which appear in the 3' → 5' mRNA decay pathway, following deadenylation and exosome-mediated turnover. This enzyme hydrolyzes the triphosphate linkage of the cap structure (7-methylguanosine nucleoside triphosphate) to yield 7-methylguanosine monophosphate and nucleoside diphosphate. It protects the cell from the potentially toxic accumulation of these short, capped mRNA fragments, and regulates the activity of other cap-binding proteins, which are inhibited by their accumulation. It also acts as a transcript-specific modulator of pre-mRNA splicing and microRNA turnover.</p>
<b>Molecular Mass</b>	The protein has a calculated MW of 40.6 kDa.
<b>AA Sequence</b>	<p>MGSSHHHHHSSGLVPRGSHMADAAPQLGKRKRELDVEEADAASTEKEAGVGN            GTCAAVRLPFSGFRVQKVLRESARDKIIFLHGKVNESSGDGDGEDAVVILEKTPFQV            EQVAQLLTGSPQLQFSNDIYSTYHLFPPRQLSDVKTTVVYPATEKHLQKYLRQDL            RLIRETGDDYRNITLPHLESQSLSIQWVYNILDKKAADRIVFENPDPDSDGFVLIPDLK            WNQQQLDDLYLIAICHRRGIRSLRDLTPEHLPLLRNHLHQQQEAILQRYQMKGDRLRV</p>

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YLHYLPSYYHLHVHFTALGFEPGSGVERAHLAEVIENLECDPRHYQQRTLTFALR  
ADDPLAQALAGGSAKLN

**Purity** >90% by SDS-PAGE

**Storage** 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.

**Concentration** 0.48 mg/mL

**Storage Buffer** 50mM Tris, 300mM NaCl, pH 8.0

## GENE INFORMATION

**Gene Name** DCPS decapping enzyme, scavenger [ *Macaca mulatta* (Rhesus monkey) ]

**Official Symbol** DCPS

**Synonyms** DCPS; decapping enzyme, scavenger; LOW QUALITY PROTEIN: m7GpppX diphosphatase

**Gene ID** 717749

**mRNA Refseq** XM\_015116079

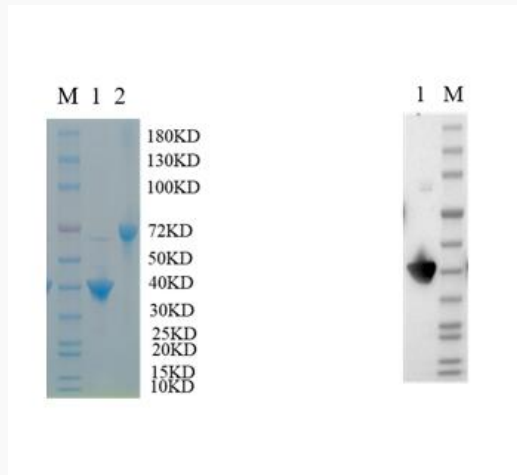
**Protein Refseq** XP\_014971565

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**SDS-PAGE:**



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

1. Rhesus monkey DCPS
2. BSA

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