

Recombinant Full Length Dog DCPS Protein, His tagged

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

SPECIFICATION

Product Overview	Recombinant Full Length Dog DCPS protein (1-396 aa) with His tag was expressed in E. coli.
Species	Dog
Source	E.coli
ProteinLength	1-396 aa
Description	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.
Molecular Mass	46.3 kDa
AA Sequence	MGSSHHHHHSSGLVPRGSHMSGVVVPAPGPSGAGPRLVLAHVGCSPRALAGR GRGWGWRRRTAPAGQHGGPSPSTRQAKARTGRRGGGHGPRASGRREWYLRPG

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AVTVLRLQSGKSAEGVREGQNPFPREGSLGQPGAGMEAAVNEASGDGGGEDAIV
 ILEKTPFQVEQVAQLLMGRPELQLQFSNDIYSTYHLFPQRQLSDVKATVVYPATEKHL
 QKYLRQDLRLVQETGSDYKNITLPYLESQSLSIQWVYNILDKKAETDRIVFENPDPSD
 GFVLIPDLKWNQQQLDDLYLIAICHRRGIRSLRDLTPEHLPLLRNILREGQEAILQRYQ
 VRGDRLRVYLHYLPSYYHLHVHFTALGFDAPGSGVERAHLADVIENLECDPEHYQ
 RRTLTFALRADDPLLRLLQEAQKS

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.

Storage Buffer PBS, pH 7.4, 0.05 % SKL

Concentration 0.192 mg/mL

GENE INFORMATION

Gene Name DCPS decapping enzyme, scavenger [*Canis lupus familiaris* (dog)]

Official Symbol DCPS

Synonyms DCPS; decapping enzyme, scavenger; scavenger mRNA-decapping enzyme DcpS

Gene ID 609536

mRNA Refseq XM_038664436

Protein Refseq XP_038520364

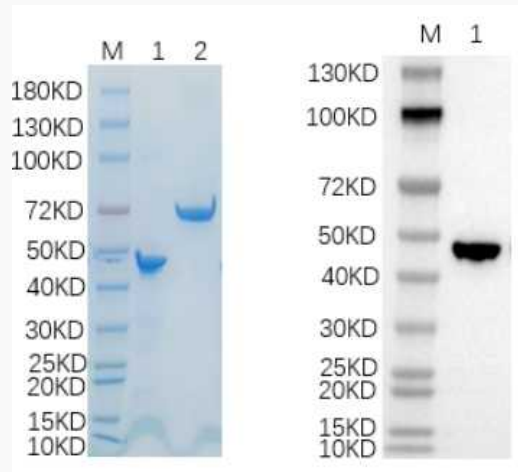
UniProt ID A0A8C0KC97

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**Reducing 12 % SDS-
PAGE and WB
analysis profiles of
purified Dog DCPS.**



1. Dog DCPS
2. BSA

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