

Recombinant Full Length Human DCPS Protein, GST-tagged

Cat. No. DCPS-2897HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DCPS full-length ORF (AAH14532, 1 a.a. - 337 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	337 amino acids
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. [provided by RefSeq, Apr 2017]
Molecular Mass	62.81 kDa
AA Sequence	MADAAPQLGKRKRELDVEEAHAASTEKEAGVGNGTCPVRLPFGFRLQKVLRE SARDKIIFLHGKVNEASEDGDGEDAVVILEKTPFQVEQVAQLLTGSPELQLQFSNDIY

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STYHLFPPRQLNDVKTTVVYPATEKHLQKYLRQDLRLIRETGDDYRNITLPHLESQSL
 SIQWVYNILDKKAADRIVFENPDPSDGFVLIPDLKWNQQQLDDLYLIAICHRRGIRSL
 RDLTPEHLPLLRNILHQQQEAILQRYRMKGDHLRVYLHYLPSYYHLHVHFTALGFEA
 PGSGVERAHLAEVIENLECDPRHYQQRTLTFALRADDPLLKLLQEAQQS

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	DCPS decapping enzyme, scavenger [Homo sapiens]
Official Symbol	DCPS
Synonyms	DCPS; decapping enzyme, scavenger; scavenger mRNA-decapping enzyme DcpS; HINT 5; HSL1; HSPC015; DCS-1; mRNA decapping enzyme; heat shock-like protein 1; histidine triad protein member 5; hint-related 7meGMP-directed hydrolase; homolog of C. elegans 7meGMP-directed hydrolase dcs-1; HINT-5;
Gene ID	28960
mRNA Refseq	NM_014026



Protein Refseq NP_054745

MIM 610534

UniProt ID Q96C86

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