

# Recombinant Human Decapping Enzyme, Scavenger, His-tagged

**Cat. No.** DCPS-1680H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human DCPS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	DCPS, also known as scavenger mRNA-decapping enzyme, belongs to the HIT family. It is necessary for the complete degradation of mRNAs, both in normal mRNA turnover and in nonsense-mediated mRNA decay. A scavenger decapping enzyme, DcpS was shown to hydrolyze the residual m7GpppN cap structure after the complete 3'-5' degradation of the mRNA by the exosome. DcpS releases m7GMP and is unable to cleave cap structures attached to a long RNA chain.
<b>Concentration</b>	0.5 mg/ml
<b>Form</b>	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, with 20% glycerol and 1mM DTT.
<b>Purity</b>	> 90% by SDS - PAGE
<b>Sequence</b>	1-337 amino acids: MGSSHHHHHH SSGLVPRGSH MADAAPQLGK RKRELDVEEA HAASTEKEA GVGNGTCAPV RLPFSGFRLQ KVLRESARDK IIFLHGKVNE ASGDGDGEDA VVILEKTPFQ VEQVAQLLTG SPELQLQFSN DIYSTYHLFP

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PRQLNDVKTT VVYPATEKHL QKYLRQDLRL IRETGDDYRN ITLPHLESQS  
LSIQWVYNIL DKKAEADRIV FENPD

**Molecular Mass** 40.8 kDa

**Applications** SDS PAGE

**Storage** Store at 4 deg C for short term storage. Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** [DCPS decapping enzyme, scavenger \[ Homo sapiens \]](#)

**Official Symbol** DCPS

**Synonyms** DCPS; HSL1; HINT-5; HSPC015; decapping enzyme, scavenger; scavenger mRNA-decapping enzyme DcpS; DCS-1; OTTHUMP00000231113; 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; EC 3.

**Gene ID** [28960](#)

**mRNA Refseq** [NM\\_014026](#)

**Protein Refseq** [NP\\_054745](#)

**MIM** [610534](#)

**UniProt ID** [Q96C86](#)

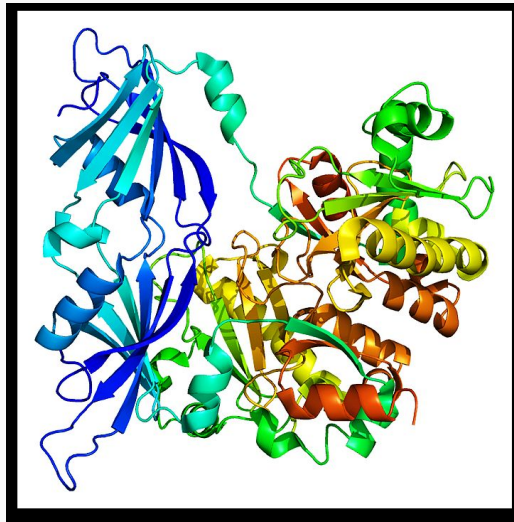
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<b>Chromosome Location</b>	11q24.2
<b>Pathway</b>	Deadenylation-dependent mRNA decay; Metabolism of RNA; Metabolism of Mrna; RNA degradation; mRNA Decay by 3' to 5' Exoribonuclease
<b>Function</b>	hydrolase activity; protein binding

PDBrendering based on 1st0.



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