Recombinant Human Decapping Enzyme, Scavenger, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human DCPS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	Human
Description	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.
Concentration	0.5 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, with 20% glycerol and 1mM DTT.
Purity	> 90% by SDS - PAGE
Sequence	1-337 amino acids: MGSSHHHHHH SSGLVPRGSH MADAAPQLGK RKRELDVEEA HAASTEEKEA GVGNGTCAPV RLPFSGFRLQ KVLRESARDK IIFLHGKVNE ASGDGDGEDA VVILEKTPFQ VEQVAQLLTG SPELQLQFSN DIYSTYHLFP

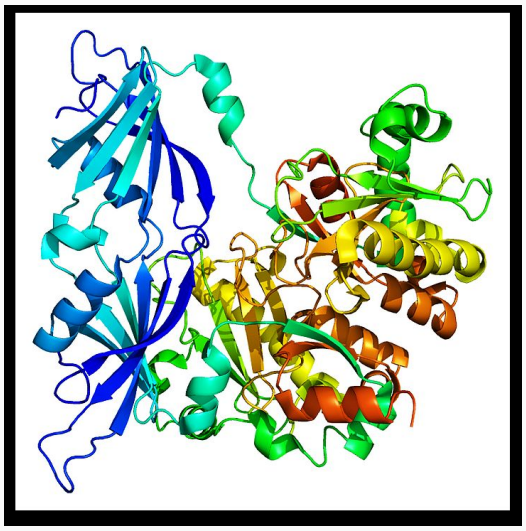
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Chromosome Location	11q24.2
Pathway	Deadenylation-dependent mRNA decay; Metabolism of RNA; Metabolism of Mrna; RNA degradation; mRNA Decay by 3" to 5" Exoribonuclease
Function	hydrolase activity; protein binding
PDBrendering based on 1st0.	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA