

Recombinant Human DCPS, His-tagged

Cat. No. DCPS-1011H **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	E.coli
Description	DCPS, also known as scavenger mRNA-decapping enzyme, is 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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT
Molecular Weight	40.8 kDa (357aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MADAAPQLGK RKRELDVEEA HAASTEEKEA GVGNGTCAPV RLPFSGFRLQ KVLRESARDK IIFLHGKVNE ASGDGDGEDA VVILEKTPFQ VEQVAQLLTG SPELQLQFSN DIYSTYHLFP PRQLNDVKTT

 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

VVYPATEKHL QKYLRQDLRL IRETGDDYRN ITLPHLESQS LSIQWVYNIL
 DKKAEADRV FENPDPSDGF VLIPDLKWNQ QQLDDLYLIA ICHRRGIRSL
 RDLTPEHLPL LRNLHQGQE AILQRYRMKG DHLRVYLHYL PSYYHLHVHF
 TALGFEAPGS GVERAHLAE VIENLECDPR HYQQRTLTFALRADDPLLKL
 LQEAQQS

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing 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
Function	exoribonuclease activity; hydrolase activity; protein binding