

AR39102PU-L

Human DCPS (1-337, His-tag) - Purified

Alternate names:	DCS-1, DCS1, HINT-5, HINT5, HSL1, HSPC015, Hint-related 7meGMP-directed hydrolase, Histidine triad protein member 5, Scavenger mRNA-decapping enzyme DcpS
Quantity:	0.25 mg
Concentration:	0.5 mg/ml (determined by Bradford assay)
Background:	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.
Uniprot ID:	Q96C86
NCBI:	NP_054745
GeneID:	28960
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >90% Buffer System: 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT
Description:	Recombinant human DCPS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. AA Sequence: MGSSHHHHHH SSGLVPRGSH MADAAPQLGK RKRELDVEEA HAASTEEKEA GVGNGTCAPV RLPFSGFRLQ KVLRESARDK IIFLHGKVNE ASGDGDGEDA VVILEKTPFQ VEQVAQLLTG SPELQLQFSN DIYSTYHLFP PRQLNDVKTT VVYPATEKHL QKYLRQDLRL IRETGDDYRN ITLPHLESQS LSIQWVYNIL DKKAEDRIV FENPDPSDGF VLIPDLKWNQ QQLDDLYLIA ICHRRGIRSL RDLTPEHLPL LRNHLHQGQE AILQRYRMKG DHLRVYLHYL PSYYHLHVHF TALGFEAPGS GVERAHLAE VIENLECDPR HYQRTLTFA LRADDPLLKL LQEAQQS Molecular weight: 40.8 kDa (357aa), confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Liu H., et al. (2002) EMBO J. 21:4699-4708. Kwasnicka D.A., et al. (2003) J. Biol. Chem. 278:39051-39058.

Pictures:

DCPS, 1-337aa, Human, His-tagged

