

DCPS recombinant protein

DCPS, 1-337aa, Human, His tag, E Coli

CATALOG # AAA48703	HOST E Coli	APPLICATIONS SDS-Page
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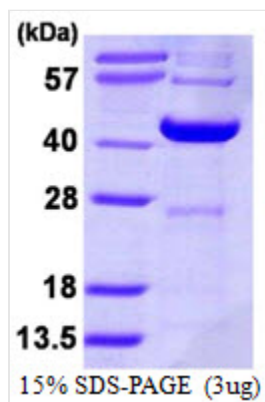
PRODUCT SYNONYMS

DCPS; 1-337aa; Human; His tag; E Coli; Scavenger mRNA-decapping enzyme DcpS; DCS1; HINT5; DCPS recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. 20mM Tris-HCl Buffer (pH 8.0) containing 20% glycerol, 1mM DTT
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHHH SSGLVPRGSH MADAAPQLGK RKRELDVEEA HAASTEEKEA GVGNGTCAPV RLPFSGFRLQ KVLRESARDK IIFLHGKVNE ASGDGDGEDA VVILEKTPFQ VEQVAQLLTG SPELQLQFSN DIYSTYHLFP PRQLNDVKTT VVYPATEKHL QKYLRQDLRL IRETGDDYRN ITLPHLESQS LSIQWVYNIL DKKAADRIV FENPDPSDGF VLIPDLKWNQ QQLDDLYLIA ICHRRGIRSL RDLTPEHLPL LRNILHQGQE AILQRYRMKG DHLRVYLHYL PSYYHLVHF TALGFEAPGS GVERAHLAE VIENLECDPR HYQQRILTFA LRADDPLLKL LQEAQQS
Sequence Length	337
Applicable Applications for DCPS recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for DCPS recombinant protein	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. Recombinant human DCPS protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography.
Product Categories/Family for DCPS recombinant protein	Enzymes & Proteases
References	Liu H., et al. (2002) EMBO J. 21:4699-4708; Kwasnicka D.A., et al. (2003) J. Biol. Chem. 278:39051-39058

NCBI AND UNIPROT INFORMATION

NCBI GI #	7661734
NCBI GeneID	28960
NCBI Accession #	NP_054745
NCBI GenBank Nucleotide #	NM_014026.5
UniProt Accession #	Q96C86; Q8NHL8; Q9Y2S5
Molecular Weight	40.8 kDa (357aa), confirmed by MALDI-TOF
NCBI Official Full Name	m7GpppX diphosphatase isoform 2
NCBI Official Synonym Full Names	decapping enzyme, scavenger
NCBI Official Symbol	DCPS
NCBI Official Synonym Symbols	ARS; DCS1; HSL1; HINT5; HINT-5; HSPC015
NCBI Protein Information	m7GpppX diphosphatase
UniProt Protein Name	m7GpppX diphosphatase
UniProt Gene Name	DCPS
UniProt Synonym Gene Names	DCS1; HINT5; HINT-5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.