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# Recombinant human DCPS protein

Catalog Number: ATGP1162

# **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

1-337aa

#### **UniProt No.**

096C86

#### **NCBI Accession No.**

NP 054745

#### **Alternative Names**

Scavenger mRNA-decapping enzyme DcpS, DCS1, HINT5

### **PRODUCT SPECIFICATION**

### **Molecular Weight**

40.7 kDa (357aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **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. Recombinant human DCPS protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.



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## **Amino acid Sequence**

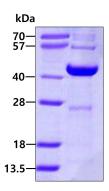
<MGSSHHHHHH SSGLVPRGSH> MADAAPQLGK RKRELDVEEA HAASTEEKEA GVGNGTCAPV RLPFSGFRLQ KVLRESARDK IIFLHGKVNE ASGDGDGEDA VVILEKTPFQ VEQVAQLLTG SPELQLQFSN DIYSTYHLFP PRQLNDVKTT VVYPATEKHL QKYLRQDLRL IRETGDDYRN ITLPHLESQS LSIQWVYNIL DKKAEADRIV FENPDPSDGF VLIPDLKWNQ QQLDDLYLIA ICHRRGIRSL RDLTPEHLPL LRNILHQGQE AILQRYRMKG DHLRVYLHYL PSYYHLHVHF TALGFEAPGS GVERAHLLAE VIENLECDPR HYQQRTLTFA LRADDPLLKL LQEAQQS

#### **General References**

Liu H., et al. (2002) EMBO J. 21:4699-4708 Kwasnicka D.A., et al. (2003) J. Biol. Chem. 278:39051-39058

## **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

