
Product Data Sheet

Product Name: DCPS Human
 Cat. No.: GP21542
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Scavenger mRNA-decapping enzyme DcpS; DCS-1; Hint-related 7meGMP-directed hydrolase; Histidine triad protein member 5; HINT-5; DCPS; DCS1; HINT5; HSPC015; HSL1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MADAAPQLGK RKRELDVEEA HAASTEEKEA GVGNGTCAPV RLPFSGFRLQ KVLRESARDK IIFLHGKVN EASGDGDGEDA VVILEKTPFQ VEQVAQLLTG SPELQLQFSN DIYSTYHLFP PRQLNDVKTT VVYPATEKHL QKYLRQDLRL IRETGDDYRN ITLPHLESQS LSIQWVYNIL DKKAEADRIV FENPDPSDGF VLIPDLKWNQ QQLDDLYLIA ICHRRGIRSL RDLTPEHLPL LRNILHQGQE AILQRYRMKG DHLRVYLHYL PSYYHLHVHF TALGFEAPGS GVERAHLAE VIENLECDPR HYQQR TLTFALRADDPLLKL LQEAQQS.		
Formulation	DCPS protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT.		

Introduction

Scavenger mRNA-decapping enzyme (DCPS) is a member of the HIT family. DCPS is required for the complete degradation of mRNAs, both in normal mRNA turnover and in nonsense-mediated mRNA decay. It was shown that DCPS hydrolyzes the residual m⁷GpppN cap structure after the complete 3'→5' degradation of the mRNA by the exosome. Furthermore, DCPS releases m⁷GMP and is incapable of cleaving cap structures attached to a long RNA chain.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

DCPS Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 357 amino acids (1-337 a.a.) and having a molecular mass of 40.8kDa. DCPS is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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