

## DCPS Human

**Description:** 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.

**Catalog #:** ENPS-166

For research use only.

**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.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MADAAPQLGK RKRELDVEEA  
HAASTEKEA GVGNGTCAPV RLPFSGFRLQ KVLRESARDK IIFLHGK VNE ASGDGDGEDA  
VVILEKTPFQ VEQVAQLLTG SPELQLQFSN DIYSTYHLFP PRQLNDVKTT VVYPATEKHL  
QKYLRQDLRL IRETGDDYRN ITPHLESQS LSIQWVYNIL DKKAEADRIV FENPDPSDGF  
VLIPDLKWNQ QQ

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

DCPS protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT.

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

**Usage:**

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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.

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