

DCPS, 1-337aa, Human, His tag, E.coli

Cat.NO.: TP01839

3th Edition

Synonyms: Scavenger mRNA-decapping enzyme DcpS, DCS1, HINT5

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.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT

Molecular Weight: 40.8 kDa (357aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMADAAPQLGKRKRELDVEEAHAASTEKEAGVGNGTCAVRLPFSGFRLQKVLR
ESARDKIIFLHGKVNEASGDGDGEDAVVILEKTPFQVEQVAQLLTGSPQLQFSNDIYSTYHLFPFPRQLNDVKTTVV
YPATEKHLQKYLRLRDLRLIRETGDDYRNITLPHLESQSLSIQWVYNILDKKAEADRIVFENPDPSDGFVLIPDLKWNQ
QLDDLYLIAICHRRGIRSLRDLTPEHLPLLRNHLHQQEAILQRYRMKGDHLRVYLHYLPSYYHLHVHFTALGFAP
GSGVERAHLAEVIENLECDPRHYQQRTLTFALRADDPLLKLLQEAQQS

Purity: > 95% by HPLC

Concentration: 0.5 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.