

Enzymax, LLC
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Product Information

Product Name: Human DCPS
Catalog #: 89
Size: 10 µg

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Product: human DCPS decapping enzyme

Product Description:

DCPS is a decapping enzyme that cleaves a residual cap structure following the degradation of mRNAs by the 3'→5' exosome-mediated mRNA decay pathway. It hydrolyzes cap analog structures such as 7-methylguanosine nucleoside triphosphate (m7GpppG) with up to 10 nucleotide substrates (small capped oligoribonucleotides) and specifically releases 5'-phosphorylated RNA fragments and 7-methylguanosine monophosphate (m7GMP). It cleaves tri-methyl guanosine nucleoside triphosphate (m3(2,2,7)GpppG) with poor efficiency. It does not hydrolyze unmethylated cap analog (GpppG) and has no decapping activity on intact m7GpppG-capped mRNA molecules longer than 25 nucleotides.

Source: Recombinant human DCPS was expressed in and purified from *E. coli*.

Molecular Weight:

Full length human DCPS (~39 kDa)

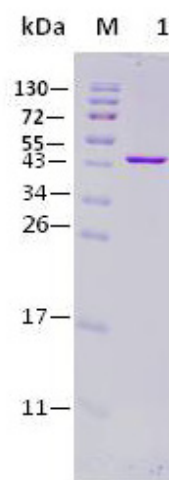
Decapping Reaction Buffer: 1X

10 mM Tris-HCl, pH 7.5
100 mM NaCl
2 mM MgCl₂
2 mM DTT
1 mM MnCl₂

NOTE: The following two components are option based on your applications:
40 units/mL (recombinant RNase inhibitor)
0.1 mM Spermine

Presentation: Purified hDCPS is supplied at a concentration range from 0.3-0.8 mg/ml in a buffer containing 50 mM Tris-HCl (pH 8.0), 500 mM NaCl and 10% glycerol.

Storage: Stable for 12 months at -80°C from date of shipment. Please aliquot to avoid repeated freezing and thawing.



Purified human DCPS. Human DCPS (300 ng) was analyzed by electrophoresis on a 15% SDS- polyacrylamide gel and visualized by staining with Coomassie blue. Protein size markers are indicated on the left.