Enzymax, LLC

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Product Information

Product Name: Human DCP2
Catalog #: 86
Size: 10 μg

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Product: human DCP2 decapping enzyme

Product Description:

Human DCP2 is a decapping enzyme of mRNA, which is a critical step in eukaryotic mRNA turnover. This enzyme specifically hydrolyzes methylated capped RNA (m7 GTP caps) to release m7GDP and5′ monophosphorylated RNA.

Source: Recombinant human DCP2 was expressed in and purified from *E. coli.*

Molecular Weight:

Full length hDCP2 (~69 kDa)

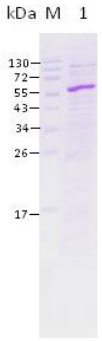
Decapping Reaction Buffer: 1x

10 mM Tris-HCl, pH 7.5
100 mM NaCl
2 mM $MgCl_2$
1 mM DTT
1 mM $MnCl_2$
10x decapping Reaction Buffer: Included

NOTE: The following two components are optional based on your applications:
40 units/ml recombinant RNase inhibitor
0.1 mM Spermine

Presentation: Purified hDCP2 is supplied at a concentration range from 0.1-0.5 mg/ml in a buffer containing 50 mM Tris-HCl (pH 8.0), 500 mM NaCl and 10% glycerol.

SDS-PAGE gel picture:



Purified human DCP2. DCP2 (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.

Suggested condition for use in 5'RACE:
It may not be optimized for other applications.

Reaction: 37°C, 30-120 min
Reaction volume: 20-50 μl
RNA substrates: 100 ng to 1 μg
DeCapping enzymes: 50-500 ng (~1-10 pmol)

Contaminating Activity Assay: It is free of detectable RNase activity when incubation of 2 μg of SP6 transcript with 50 ng of enzyme for 1 hour at 37°C. It is also free of detectable exo and endo nuclease activities.

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