

Enzymax, LLC

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Product Information

Product Name: Human NUDT16
Catalog #: 90
Size: 10 µg

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Product: human NUDT16 decapping enzyme

Product Description:

NUDT16 is a RNA-binding and decapping enzyme that catalyzes the cleavage of the cap structure of snoRNAs and mRNAs in a metal-dependent manner. As a component of the U8 snoRNP complex, NUDT16 is required for the accumulation of mature 5.8S and 28S rRNA. It has diphosphatase activity and removes m7G and/or m227G caps from U8 snoRNA and leaves a 5'monophosphate on the RNA. It also cleaves cap structure on mRNAs. It does not hydrolyze cap analogs such as 7-methylguanosine nucleoside triphosphate (m7GpppG). It also hydrolyzes m7G- and m227G U3-capped RNAs with less efficiency.

Source: Recombinant human NUDT16 was expressed in and purified from *E. coli*.

Molecular Weight:

Full length human NUDT16 (~21.3 kDa)

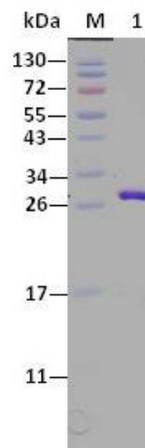
Decapping Reaction Buffers: 1X

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 hNUDT16 is supplied at a concentration range from 0.2-0.3 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 NUDT16. NUDT16 (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.