

**Enzymax, LLC**  
870 Corporate Drive, suite 201  
Lexington, KY 40503

## Product Information

**Product Name:** Tobacco Decapping Plus 2  
**Catalog #:** 94  
**Size:** 200 pmol

**Order:** [info@enzymax.net](mailto:info@enzymax.net)  
**Tel:** 859-219-8482  
**Fax:** 859-219-0653  
**Web:** [www.enzymax.net](http://www.enzymax.net)

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**Product:** Tobacco Decapping Plus 2

### Product Description:

Tobacco Decapping Plus 2 is a specially formulated product based on a major mRNA decapping enzyme of tobacco plant. It is used for removing mRNA cap structure. It acts on capped RNA of any size, releasing the mRNA cap and 5' monophosphorylated RNA. It also hydrolyzes cap analogs such as m<sup>7</sup>GpppG. Additionally, it contains a pyrophosphohydrolase activity that converts 5' triphosphorylated RNA to 5' monophosphorylated RNA.

### Decapping Reaction Buffer: 1X

10 mM Tris-HCl, pH 7.5  
100 mM NaCl  
2 mM MgCl<sub>2</sub>  
1 mM DTT  
1 mM MnCl<sub>2</sub>

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

**10x decapping Reaction Buffer:**  
Included

**Presentation:** Tobacco Decapping Plus is in a buffer containing 50 mM Tris-HCl (pH 8.0), 500 mM NaCl and 10% glycerol.

### Suggested condition for used in 5'RACE:

It may not be optimized for other applications.

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

**Contaminating Activity Assay:** It is free of detectable RNase activity when incubation of 2ug of SP6 transcript with 50ng 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.