

RNA 5'

Pyrophosphohydrolase

(RppH)

Product Information

Product Name	Catalog Number	Size
RNA 5' Pyrophosphohydrolase (RppH)	RPP-EE101-B	1000 U
	RPP-EE101-C	5000 U

Product Description

RNA 5' Pyrophosphohydrolase (RppH) removes pyrophosphate from 5' end of triphosphorylated RNA to leave a 5' monophosphate RNA. RppH is also known as NudH/YgdP, that can hydrolyze di-adenosine penta-phosphate into ADP and ATP.

Specifications

Component	RPP-EE101-B (1000 U)	RPP-EE101-C (5000 U)
RNA 5' Pyrophosphohydrolase (RppH)(5 U/μl)	RPP-EE101-B1(200 μl)	RPP-EE101-C1(1 ml)
10×RppH Reaction Buffer	RPP-EE101-B2(1 ml)	RPP-EE101-C2(5 ml)

Source *E.coli*

Storage Buffer

20 mM Tris-HCl, 200 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 0.01% Triton X-100, pH 7.5

Enzyme Activity Definition

One unit (1U) is defined as the amount of enzymes required to convert 1 μg of 300-mer RNA transcript to XRN-1 digestible RNA at 37°C in 30 minutes.

Transportation/Storage

Ship on dry ice. Store at -20 ± 5°C. Avoid repeated freeze-thaw cycles.

Applications

- 1) Convert 5' triphosphorylated RNA to 5' monophosphate RNA
- 2) Prepare 5' monophosphate RNA for linker
- 3) RNA 5' end modification analysis

Protocol

Converting 5' triphosphate RNA to 5' monophosphate RNA:

- 1) Prepare the reaction as follows:

Component	Volume
5' triphosphate RNA	Up to 2 μg
10× RppH Reaction Buffer	2 μl
RNA 5' Pyrophosphohydrolase(RppH)	2 μl
Nuclease-free Water	To 20 μl

- 2) Incubate at 37°C for 30 minutes.
- 3) Add EDTA to a final concentration of 20mM to stop the reaction.

Caution

For research use only.