

Thermostable RNase T1

Cat. No.: R749974 | Pack size: 100 KU / 500 KU | Storage: -20°C

Components & Storage

Cat. No.	Component	100 KU	500 KU	Storage
R749974A	Thermostable RNase T1	200 µL	5×200 µL	-20°C. Avoid freeze/thaw cycle
R749974B	10× RNase T1 Buffer	1 mL	5×1 mL	-20°C. Avoid freeze/thaw cycle

Product Description

Performance description:

Thermostable RNase T1 is a heat-resistant mutant based on RNase T1 through protein-directed evolution. Compared to wild-type RNase T1, Thermostable RNase T1 is able to maintain 100% activity at 50°C, while wild-type activity decreases by at least 50% at the same temperature. The higher reaction temperature helps to fully open the secondary structure of RNA and reduce or avoid its influence on enzyme digestion, thus making the enzyme digestion process more thorough.

Activity definition:

The activity unit (U) refers to the amount of enzyme required to change A260 by 1.0 using yeast RNA as substrate at 37°C and pH7.5.

Application:

1. Remove RNA from DNA;
2. Remove RNA from recombinant protein;
3. RNA sequencing;
4. For ribonuclease protection test (in combination with RNase A)
5. The transcription levels of DNA templates with no or low G content were measured.

Attention:

1. The thermal deactivation of Thermostable RNase T1 is reversible, and it is recommended to remove Thermostable RNase T1 by column purification or phenol/chloroform extraction.
2. Rnase-related experiments should be conducted in fume hoods or specific areas to avoid influence on other experiments.

3. For your safety and health, please wear a lab coat, disposable gloves and a mask to perform the experiment.

Specifications

Item	Specification
Product Name	Thermostable RNase T1, CAS No.9026-12-4
Synonyms	Thermostable Ribonuclease T1 Ribonuclease T1
Specifications & Purity	BioReagent, DNase free, Suitable for molecular biology, EnzymoPure™, ≥95%(SDS-PAGE), 500 U/μL
CAS	9026-12-4
Molecular Weight	11 kDa
EC Number	232-809-1
Molecule Type	Enzyme
Available Size	100 KU; 500 KU

Storage and Shipping

Note: Check lot-specific COA for exact specifications.

Item	Specification
Concentration	500 U/μL
Storage	Store at -20°C, Avoid repeated freezing and thawing
Shipped In	Ice chest + Ice pads
Stability And Storage	Store at -20°C long term (24 months). Upon receipt, it is recommended to aliquot. Avoid freeze/thaw cycle.
Unit definition	One unit of the enzyme causes an increase in absorbance of 1.0 at 260nm in 15min when yeast RNA is hydrolyzed at 37°C and pH7.5.

Contact & Global Offices

Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the product for their specific application.
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