

[Cat. No.] Please refer to the **Ordering Information**

Introduction

100 mM rNTPs (Ribonucleoside triphosphates) are provided as solutions of each 100 mM ATP, GTP, CTP, and UTP. It is available either separated tubes or set containing individual tubes. Highly purified rNTPs are required for reproducible results and this product represents a more than 98% purity. This product is compatible with BIONEER's T7 RNA Polymerase and can be applied to various molecular biology experiments.

Applications

- *In vitro* transcription
- Poly(A) and Poly(U) tailing of RNA
- SELEX (Systemic evolution of ligands by exponential enrichment)

Composition

100 mM ATP	
Description	Adenosine 5'-triphosphate
Formula	C ₁₀ H ₁₃ N ₅ O ₁₃ P ₃ (Anion)
Molecular weight	504.16 g/mol
Purity	≥ 98%

100 mM GTP	
Description	Guanosine 5'-triphosphate
Formula	C ₁₀ H ₁₃ N ₅ O ₁₄ P ₃
Molecular weight	520.15 g/mol
Purity	≥ 98%

100 mM CTP	
Description	Cytidine 5'-triphosphate
Formula	C ₉ H ₁₃ N ₃ O ₁₄ P ₃
Molecular weight	480.13 g/mol
Purity	≥ 98%

100 mM UTP	
Description	Uridine 5'-triphosphate
Formula	C ₉ H ₁₂ N ₂ O ₁₅ P ₃
Molecular weight	481.11 g/mol
Purity	≥ 98%

* **Note:** For research use only. Not for use in diagnostic or therapeutic procedures.

Storage Buffer

100 mM rNTPs (ATP, GTP, CTP, and UTP) is supplied in nuclease-free water.

Quality Control

- Nuclease Contamination Assay: Nuclease activity is not detected after incubation of 500 ng of substrate Lambda DNA or RNA with 100 nmol of rNTPs (ATP, GTP, CTP, and UTP) at 37°C for 18 hrs.
- Protease Contamination Assay: Protease activity is not detected after incubation 2 µg of BSA with 100 nmol of rNTPs (ATP, GTP, CTP, and UTP) at 37°C for 18 hrs.

Storage

- Store at -20°C. If stored in the recommended temperature, this product will be stable until the expiration date printed on the label.
- Avoid repeated freeze and thaw cycles and recommended to store in small aliquots.

Online Resources



Korean



English

Visit our **product page** for additional information and protocols.

Ordering Information

Description		Cat. No
100 mM rNTPs set (ATP, GTP, CTP, and UTP)	0.25 ml x 4 ea	D-3003
100 mM ATP	0.25 ml	D-3003-A
100 mM GTP	0.25 ml	D-3003-G
100 mM CTP	0.25 ml	D-3003-C
100 mM UTP	0.25 ml	D-3003-U

Notice

BIONEER corporation reserves the right to make corrections, modifications, improvements and other changes to its products, services, specifications or product descriptions at any time without notice.

Explanation of Symbols



Batch Code



Catalog Number



Caution



Consult Instructions For Use



Contains Sufficient for <n> tests



Research Use Only



Temperature Limitation



Use-by Date