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RPOLT3-RO Roche

T3 RNA Polymerase

from *Escherichia coli* HB101

Synonyme(s):

mRNA, polymerase

Numéro de classification
(Commission des enzymes):[2.7.7.6 \(BRENDA, IUBMB\)](#)

Une ou plusieurs taille(s) de conditionnement de ce produit ont été interrompues, mais celles présentées sont toujours disponibles à l'achat.

Référence	Conditionnement	Disponibilité	Prix	Quantité
11031163001	1000 UNITS	✓ Date d'expédition estimée le 03 octobre 2022 Détails...	155,00 €	— + 
11031171001	5000 UNITS	✓ Disponible pour expédition le 01 octobre 2022 Détails...	511,00 €	— + 

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PRODUITS RECOMMANDÉS



Roche

RPOLT7-RO

T7 RNA Polymerase

from *Escherichia coli* BL 21/pAR 1219



Roche

RPOLSP6-RO

SP6 RNA Polymerase

from *Escherichia coli* BL 21/pSR3

[Consulter le prix et la disponibilité](#)

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PROPRIÉTÉS

Niveau de qualité	100
Forme	solution
Conditionnement	pkg of 1,000 U (11031163001) pkg of 5,000 U (11031171001)
manufacturer/tradename	Roche
Expédié(e)s dans	dry ice
Temp. de stockage	-20°C

Catégories apparentées

DESCRIPTION

Description générale

With this enzyme, homogeneously labeled single-stranded RNA can be generated. Transcripts can be nonradioactively labeled with biotin or DIG-11-UTP or radioactively labeled to high specific activity with [α - ^{32}P]- or [α - ^{35}S]-labeled nucleotides. T3 RNA polymerase is a DNA-dependent RNA polymerase that is highly specific for its promoter. Only DNA downstream from the T3 promoter will be transcribed.

Spécificité

Promotor specificity

T3 RNA polymerase is extremely promoter-specific and only transcribes bacteriophage T3 DNA or DNA cloned downstream of a T3 promoter.

Heat inactivation: Stop the reaction by adding 2 μl 0.2 M EDTA (pH 8.0) and/or heat to 65 °C.

Application

T3 RNA Polymerase can transcribe RNA from cloned DNA templates that are downstream from a T3 promoter. The synthesis can be performed with labeled NTPs to generate highly labeled RNA. Synthesized RNA can be used in many applications, including:

- RNA or DNA blotting techniques
- *In situ* hybridization
- RNase protection studies: Transcripts synthesized by the enzyme are used as precursor RNA for studies on RNA splicing and processing.
- Synthesis of capped RNA *in vitro* with addition of m7GpppG or m7GpppA in excess over GTP or ATP during the transcription reaction. The generated antisense RNA can be introduced into cells to suppress the expression of the corresponding genes.

Conditionnement

1 kit containing 2 components

Qualité

Absence of endonucleases, nicking activity, and RNases tested according to the current Quality Control procedures. Function tested with the SP6/T7 Transcription Kit.

Caractéristiques

Volume Activity: =20U/μl

Synthesis of hybridization probes: T3 RNA polymerase allows highly efficient production of homogeneously labeled RNA. This labeled RNA may be used as hybridization probes in Southern, northern, and dot blots, as well as in situ hybridizations.

Suitable labels: Transcripts can be nonradioactively labeled with biotin-16-UTP, DIG-11-UTP, or fluorescein-12-UTP. They may also be radioactively labeled to high specific activity with [α -32P]- or [α -35S]-labeled nucleotides.

Note: Roche has 10x concentrated RNA Labeling Mixes that are specially designed for DIG-, biotin-, and fluorescein-labeling. These mixes work well with T3 RNA Polymerase.

Définition de l'unité

One unit is the enzyme activity which incorporates 1 nMol CMP in acid-precipitable RNA products within 60 minutes at +37 °C.

Volume Activity: ≥ 20 U/μl

Notes préparatoires

Activator: BSA/spermine

Autres remarques

For life science research only. Not for use in diagnostic procedures.

Composants de kit seuls

Réf. du
produit

Description

T3 RNA Polymerase, in buffer, pH 7.9 ≥ 20 U/ μ l

Transcription Buffer 10x concentrated

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS07

Mention d'avertissement

Warning

Mentions de danger

H319

Conseils de prudence

P264 - P280 - P305 + P351 +
P338 - P337 + P313

Classification des risques

Eye Irrit. 2

Code de la classe de stockage

12 - Non Combustible Liquids

WGK

WGK 2

Flash Point(F)

does not flash

Point d'éclair C

does not flash

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

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LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Roche
TRNABAK-RO
tRNA
from bakers yeast

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Roche
11685597910
Biotin RNA Labeling Mix
sufficient for 20 reactions (transcription), pkg of 40 µL,
solution

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Gap43 transcription modulation in the adult brain depends on sensory activity and synaptic cooperation.

Nicole Rosskothén-Kuhl et al.

PloS one, 9(3), e92624-e92624 (2014-03-22)

Brain development and learning is accompanied by morphological and molecular changes in neurons. The growth associated protein 43 (Gap43), indicator of neurite elongation and synapse formation, is highly expressed during early stages of development. Upon maturation of the brain, Gap43

Speckled-like pattern in the germinal center (SLIP-GC), a nuclear GTPase expressed in activation-induced deaminase-expressing lymphomas and germinal center B cells.

Kathleen Richter et al.

The Journal of biological chemistry, 284(44), 30652-30661 (2009-09-08)

We identified a novel GTPase, SLIP-GC, with expression limited to a few tissues, in particular germinal center B cells. It lacks homology to any known proteins, indicating that it may belong to a novel family of GTPases. SLIP-GC is expressed

In situ hybridization methods for mouse whole mounts and tissue sections with and without additional β -galactosidase staining.

Yoshihiro Komatsu et al.*Methods in molecular biology (Clifton, N.J.), 1092, 1-15 (2013-12-10)*

In situ hybridization is a powerful method for detecting endogenous mRNA sequences in morphologically preserved samples. We provide in situ hybridization methods, which are specifically optimized for mouse embryonic samples as whole mounts and section tissues. Additionally, β -Galactosidase (β -gal) is

Determination of gene expression patterns using high-throughput RNA in situ hybridization to whole-mount *Drosophila* embryos.

Richard Weiszmman et al.*Nature protocols, 4(5), 605-618 (2009-04-11)*

We describe a high-throughput protocol for RNA in situ hybridization (ISH) to *Drosophila* embryos in a 96-well format. cDNA or genomic DNA templates are amplified by PCR and then digoxigenin-labeled ribonucleotides are incorporated into antisense RNA probes by in vitro

Optimized RNA ISH, RNA FISH and protein-RNA double labeling (IF/FISH) in *Drosophila* ovaries.

Sandra G Zimmerman et al.*Nature protocols, 8(11), 2158-2179 (2013-10-12)*

In situ hybridization (ISH) is a powerful technique for detecting nucleic acids in cells and tissues. Here we describe three ISH procedures that are optimized for *Drosophila* ovaries: whole-mount, digoxigenin-labeled RNA ISH; RNA fluorescent ISH (FISH); and protein immunofluorescence (IF)-RNA

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

mRNA Synthesis for the Development of Vaccines and Therapeutics

Understand how mRNA vaccines induce immunity. and read how synthetic mRNA is prepared for vaccine immunogens and other biopharmaceuticals. Find reagents for synthesis of mRNA.

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