

Datasheet for ABIN3188215

T7 RNA Polymerase

Overview

Quantity: 100 µL

Application: RNA Modification (RNA Mod)

Product Details

Characteristics: T7 RNA Polymerase is a DNA dependent RNA polymerase that catalyzes the synthesis of RNA in the 5' → 3' *direction only in the presence of its cognate T7 phage promoter sequence. T7 RNA Polymerase has high specificity for the T7 phage promoter and will not recognize SP6 or T3 RNA Polymerase promoter sequences.*

Components: Enzyme supplied with 10X Reaction Buffer

Unit Definition: One unit is defined as the amount of T7 RNA Polymerase that is required to incorporate 1 nmol ATP into acid-insoluble material in a 50 µl reaction volume in 1 hour at 37°C in 1X T7 RNA Polymerase Reaction Buffer.

Application Details

Comment:

- Synthesis of RNA transcripts for hybridization probes
- Synthesis of RNA for in vitro translation
- Synthesis of biologically active mRNA
- Generate large amounts of labelled or nonlabelled RNA

Restrictions: For Research Use only

Handling

Concentration: 50 U/µL

Buffer: 50 mM Tris-HCl (pH 8), 1 mM EDTA, 20 mM β-ME, 100 mM NaCl, 0.1 % Triton®X-100 and 50 % (v/v) Glycerol.

Storage: -20 °C

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Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)