Creative Enzymes®

Native E. coli RNA Polymerase, Holoenzyme

Cat. No. NATE-1262

Lot. No. (See product label)

Introduction

Description	E. coli RNA Polymerase, Holoenzyme is the core enzyme saturated with sigma factor 70. The Holoenzyme initiates RNA synthesis from sigma 70 specific bacterial and phage promoters. E. coli RNA Polymerase, Core Enzyme consists of 5 subunits designated α, α, β´, β, and ω. The enzyme is free of sigma factor and does not recognize any specific bacterial or phage DNA promoters. The enzyme retains the ability to transcribe RNA from nonspecific initiation sequences. Addition of sigma factors will allow the enzyme to initiate RNA synthesis from specific bacterial and phage promoters.
Applications	RNA synthesis from E. coli promoter Transcription initiation studies In vitro translation with PURExpress
Synonyms	E. coli RNA Polymerase, Holoenzyme; E. coli RNA Polymerase; RNA Polymerase; RNAP; RNApol; DNA-dependent RNA polymerase

Product Information

Source	E. coli
Form	20 mM Tris-HCl, pH 7.5, 100 mM NaCl, 0.1 mM EDTA, 1 mM dithiothreitol (DTT) and 50% glycerol
Molecular Weight	400 kDa.
Concentration	1,000 units/ml
Unit Definition	One unit is defined as the amount of enzyme required to incorporate 1 nmol NTP into RNA in 10 minutes at 37°C.

Storage and Shipping Information

Storage	at -20°C