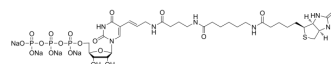


Biotin-16-UTP tetrasodium

Cat. No.:	HY-D1686B
Molecular Formula:	C ₃₂ H ₄₈ N ₇ Na ₄ O ₁₉ P ₃ S
Molecular Weight:	1051.7
Target:	DNA Stain
Pathway:	Cell Cycle/DNA Damage
Storage:	Solution, -20°C, 2 years



BIOLOGICAL ACTIVITY

Description	Biotin-16-UTP tetrasodium is an active substrate for RNA polymerase. Biotin-16-UTP tetrasodium can replace UTP in the in vitro transcription reaction for RNA labeling ^[1] .
In Vitro	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <p>In Vitro RNA Synthesis and Purification:</p> <ol style="list-style-type: none"> 1. Incubate the cells according to your normal protocol. 2. Add gently One volume of transcription buffer 2x [200 mM KCl, 20 mM Tris-HCl, pH 8.0, 5 mM MgCl₂, 4 mM dithiothreitol (DTT), 4 mM each of ATP, GTP and CTP, 200 mM sucrose and 20% glycerol] to nuclei in ice, form mixture. 3. Add 8 μL biotin-16-UTP (from 10 mM tetralithium sal) to the mixture, which is incubated for 30 min at 29°C. 4. Add 6 μL 250 mM CaCl₂, 6 μL RNase-free DNase I (10 U/μL) and incubating for 10 min at 29°C to stop reaction. 5. Perform RNA purification of both nuclear run-on and total RNA according to the manufacturer's instructions. 6. Resuspend RNA in 50 uL diethylpyrocarbonate (DEPC)-treated water. 7. Labeled RNA was captured by streptavidin-coated magnetic beads. 8. RNA-binding beads are then used for random hexamer primed reverse transcription. <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA