

Product Data Sheet



Biotin-11-UTP Catalog ID: 210013

Revised: 2025-01-31

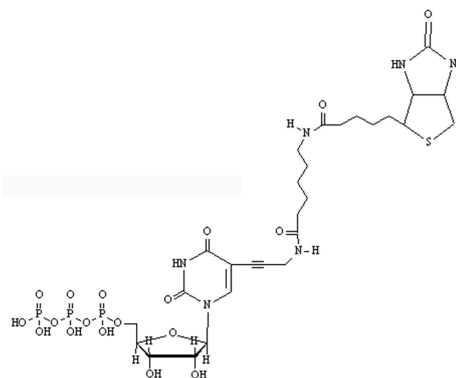
Description

This biotin-labeled analog of uridine triphosphate (UTP) is designed for labeling RNA probes through in vitro transcription using various RNA polymerases. Biotin-labeled RNA probes are widely employed in molecular biology applications, such as in situ hybridization and gene expression microarrays. The biotin tag allows for detection using streptavidin conjugates, leveraging the strong biotin-streptavidin interaction.

The number "11" in the compound name indicates the length of the linker arm connecting the UTP molecule to the biotin label. This linker length plays a role in balancing the efficiency of probe labeling and the accessibility of the biotin for detection.

Chemical Properties

CAS number	NA
Formula	C ₂₈ H ₄₃ N ₆ O ₁₈ P ₃ S
Molecular Weight	876.66
Concentration	1.0 mM
Solvent	10 mM Tris-HCl, pH 7.6, 1.0 mM EDTA
HPLC Purity	≥95%
λ _{abs} (nm)	289
λ _{fl} (nm)	NA
ε _{max} (M ⁻¹ cm ⁻¹)	1.3×10 ⁴



Storage

Upon receipt, store at -20°C in the dark. Protect from light and moisture. When stored as indicated, Biotin-11-UTP is stable for at least 1 year.

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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