

Product Data Sheet

Product Name: Biotin-16-Aminoallyluridine-5'-Triphosphate

Cat. No.: GN20133

Chemical Properties

Purity	>90.00%	Extinction Coefficient	7,100 Lmol ⁻¹ cm ⁻¹ at 290 nm
Formula	C ₃₂ H ₅₂ N ₇ O ₁₉ P ₃ S (free acid)	M.Wt	963.80 g/mole (free acid)
Salt Form	Li+	Concentration	
Buffer	H ₂ O	Storage	-20°C or below
Synonyms	Biotin-16-AA-UTP, Biotin-16-UTP	Backbone	5'-Triphosphate
Base Analog	Uridine	Sugar Type	RNA
Nucleotide Category	Biotin Labeled		
Applications	Aptamers, Epigenetics/DNA Damage, In vitro Transcription, Mutagenesis, Photocrosslinking Studies		

Background

Biotin-16-Aminoallyluridine-5'-Triphosphate (Biotin-16-UTP, Biotin-16-AA-UTP) can be incorporated via a number of RNA polymerases, including SP6-, T3- and T7-RNA polymerase to form labeled RNA. According to Fenn BJ, et al., T7 RNA polymerase does not significantly discriminate between the natural and the biotinylated nucleotide. Therefore, the number of biotinylated positions per transcript can be controlled by varying the ratio of the biotinylated NTP to the standard NTP. Biotinylated RNA probes are useful as a nonradioactive label in a number of applications including chromosome mapping, in situ hybridization and microarray hybridization. Biotin-16-U-modified RNA can be detected with a variety of streptavidin-based approaches.

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

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