

Product Data Sheet

Product Name: Cyanine 5-6-Propargylamino-2'-deoxyuridine-5'-Triphosphate

Cat. No.: GN20141

Chemical Properties

Purity	>95.00%	Extinction Coefficient	250,000 Lmol ⁻¹ cm ⁻¹ at 649 nm
Formula	C ₄₅ H ₅₅ N ₅ O ₂₁ P ₃ S ₂ (free acid)	M.Wt	1158.90 g/mole (free acid)
Salt Form	Li+	Concentration	
Buffer	H ₂ O	Storage	-20°C or below
Synonyms	Cyanine 5-dUTP	Backbone	5'-Triphosphate
Base Analog	Thymidine, Uridine	Sugar Type	DNA
Nucleotide Category	Dye Labeled		
Applications	Aptamers, Epigenetics/DNA Damage, In vitro Transcription, Mutagenesis, Photocrosslinking Studies		

Background

Cyanine 5-6-Propargylamino-2'-deoxyuridine-5'-Triphosphate can replace dTTP in many enzymatic reactions, as it is a substrate for many polymerases and reverse transcriptases. The resulting fluorescent Cyanine 5-labeled probes can be used in applications such as microarrays, FISH, and genome mapping, among others.

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

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