

Product Data Sheet

Product Name: 2'-Fluoro-2'-deoxyuridine-5'-Triphosphate

Cat. No.: GN20005

Chemical Properties

Purity	>95.00%	Extinction Coefficient	10,100 Lmol ⁻¹ cm ⁻¹ at 262 nm
Formula	C ₉ H ₁₄ N ₂ O ₁₄ P ₃ F (free acid)	M.Wt	486.10 g/mole (free acid)
Salt Form	Li+	Concentration	
Buffer	H ₂ O	Storage	-20°C or below
Synonyms	2'-F-dUTP	Backbone	5'-Triphosphate
Base Analog	Uridine	Sugar Type	2'-Fluoro
Nucleotide Category	Sugar Modified		
Applications	Aptamers		

Background

2'-Fluoro NTPs are being utilized in an increasing number of applications in research and new drug development. 2'-Fluoro-dUTP is incorporated in both DNA and RNA constructs to improve in vivo stability. Both 2' Fluoro dU and dC are used in the design and synthesis of aptamers, antagomirs and siRNA, because they impart increased target affinity and resistance to endonuclease degradation, while reducing immune response. A key technique utilized in aptamer development using 2'-Fluoro-dUTP is SELEX (Systematic Evolution of Ligands by Exponential Enrichment). The SELEX process allows for the simultaneous screening of 1 x 10¹⁵ different oligonucleotides against a target of interest, such as a protein. The main goal of SELEX is to identify a small subset of aptamers from the original library that bind to the target of interest. Learn more in the technical article: An Overview of the SELEX Process. "GlpBio offers not just better pricing but specialized services at large scale and functional, quality 2'-Fluoro-dCTP and 2'-Fluoro-dUTP. GlpBio's technical customer support was knowledgeable and gave me confidence about the products." Sriramchandra Mangipudi Bioengineer University of Washington, Seattle

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

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