

Product Data Sheet

Product Name: 7-Deaza-2'-deoxyguanosine-5'-Triphosphate

Cat. No.: GN20073

Chemical Properties

Purity	>95.00%	Extinction Coefficient	10,069 Lmol ⁻¹ cm ⁻¹ at 259 nm
Formula	C ₁₁ H ₁₇ N ₄ O ₁₃ P ₃ (free acid)	M.Wt	506.00 g/mole (free acid)
Salt Form	Li+	Concentration	
Buffer	H ₂ O	Storage	-20°C or below
Synonyms	7-Deaza-dGTP	Backbone	5'-Triphosphate
Base Analog	Guanosine	Sugar Type	DNA
Nucleotide Category	Base Modified DNA		
Applications	Aptamers, Epigenetics/DNA Damage, In vitro Transcription, Mutagenesis, Photocrosslinking Studies		

Background

This deoxyguanosine analog lacks the N7 nitrogen found in the natural guanine nucleobase. Replacement of this nitrogen atom with a carbon atom results in diminished structure of the major groove in DNA and may disrupt base stacking, but does not interfere with Watson-Crick base pairing. This is desirable for applications such as amplification and sequencing of GC-rich nucleic acid sequences.

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

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