

Product Data Sheet

Product Name: 5-Hydroxymethyl-2'-deoxycytidine-5'-Triphosphate

Cat. No.: GN20098

Chemical Properties

Purity	>90.00%	Extinction Coefficient	7,700 Lmol ⁻¹ cm ⁻¹ at 275 nm
Formula	C ₁₀ H ₁₈ N ₃ O ₁₄ P ₃ (free acid)	M.Wt	497.10 g/mole (free acid)
Salt Form	Li+	Concentration	
Buffer	H ₂ O	Storage	-20°C or below
Synonyms	5-hme-dCTP, 5-hmdCTP, 5-Hydroxymethyl-dCTP	Backbone	5'-Triphosphate
Base Analog	Cytidine	Sugar Type	DNA
Nucleotide Category	Base Modified DNA		
Applications	Aptamers, Epigenetics/DNA Damage, In vitro Transcription, Mutagenesis, Photocrosslinking Studies		

Background

Methylated deoxycytidine analogs are well studied epigenetic modifications. 5-Hydroxymethyl-2'-deoxycytidine has recently been discovered in mammalian genomic DNA, but is substantially depleted in many types of human cancers. A strong inverse relationship has been demonstrated between the proliferation rate of cells and the global level of 5-hydroxymethyl-2'-deoxycytidine in both porcine and rat tissues, but no such relationship was observed for 5-formyl-2'-deoxycytidine and 5-carboxyl-2'-deoxycytidine.

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

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