

Product Data Sheet

Product Name: 5-Aminoallylcytidine-5'-Triphosphate

Cat. No.: GN20041

Chemical Properties

Purity	>90.00%	Extinction Coefficient	5,041 Lmol ⁻¹ cm ⁻¹ at 290 nm
Formula	C ₁₂ H ₂₁ N ₄ O ₁₄ P ₃ (free acid)	M.Wt	538.20 g/mole (free acid)
Salt Form	Li+	Concentration	
Buffer	H ₂ O	Storage	-20°C or below
Synonyms	5-AA-CTP	Backbone	5'-Triphosphate
Base Analog	Cytidine	Sugar Type	RNA
Nucleotide Category	Base Modified RNA		
Applications	Aptamers, Epigenetics/DNA Damage, In vitro Transcription, Mutagenesis, Photocrosslinking Studies		

Background

5-Aminoallylcytidine-5'-triphosphate (AA-CTP) can be used in the same biochemical and diagnostic applications as 5-Aminoallyluridine-5'-triphosphate (AA-UTP) (Silverman et al., Bruning et al.). AA-CTP is a good substrate for RNA polymerase and leads to a higher transcription yield of 5-aminoallyl residues than the use of AA-UTP (Baum et al.). After transcription, 5-aminoallyl-C residues can be labeled with a fluorescent dye, biotin or other functional group through amino conjugation. AA-CTP can also be labeled or modified prior to transcription as modified-AA-CTP derivatives are typically substrates for RNA polymerase.

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

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