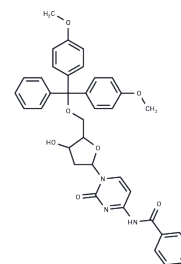


## N4-Benzoyl-5'-O-(4,4'-dimethoxytrityl)-2'-deoxycytidine

## Chemical Properties

CAS No. :	67219-55-0
Formula:	C37H35N3O7
Molecular Weight:	633.69
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	N4-Benzoyl-5'-O-(4,4'-dimethoxytrityl)-2'-deoxycytidine (5'-O-DMT-N4-Bz-dC) is a chemical compound used in the synthesis of oligodeoxynucleotides with a 3'-S-phosphorothiolate (3'-PS) linkage, valuable for investigating enzyme-catalyzed cleavage mechanisms in DNA.
Targets(IC50)	Nucleoside Antimetabolite/Analog,Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5781 mL	7.8903 mL	15.7806 mL
5 mM	0.3156 mL	1.5781 mL	3.1561 mL
10 mM	0.1578 mL	0.789 mL	1.5781 mL
50 mM	0.0316 mL	0.1578 mL	0.3156 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

James W Gaynor, et al. Synthesis of the 3'-thio-nucleosides and subsequent automated synthesis of oligodeoxynucleotides containing a 3'-S-phosphorothiolate linkage. Nat Protoc. 2007;2(12):3122-35.

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