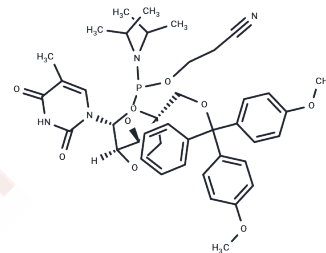


DMTr-LNA-5MeU-3-CED-phosphoramidite

Chemical Properties

CAS No. :	206055-75-6
Formula:	C41H49N4O9P
Molecular Weight:	772.82
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	DMTr-LNA-5MeU-3-CED-phosphoramidite, a nucleoside derivative, is a modified building block used in oligonucleotide synthesis to enhance stability and binding affinity.
Targets(IC50)	Nucleoside Antimetabolite/Analog, DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 200 mg/mL (258.79 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (6.47 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.294 mL	6.4698 mL	12.9396 mL
5 mM	0.2588 mL	1.294 mL	2.5879 mL
10 mM	0.1294 mL	0.647 mL	1.294 mL
50 mM	0.0259 mL	0.1294 mL	0.2588 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

Kumar P, et al. Locked nucleic acid (LNA) enhances binding affinity of triazole-linked DNA towards RNA. Chem Commun (Camb). 2017 Aug 3;53(63):8910-8913.

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