

Dmt-2'fluoro-da(bz) amidite

Chemical Properties

CAS No. : 136834-22-5

Formula: C47H51FN7O7P

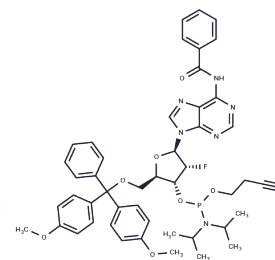
Molecular Weight: 875.92

Storage:

Store at low temperature, Keep away from direct sunlight

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	Dmt-2'fluoro-da(bz) amidite is a 2'-deoxy-2'-fluoro-phosphorothioate oligonucleotide with high affinity and specificity for RNA targets and serves as an intermediate in the synthesis of 5'-DMT-3'-phosphoramidite, an antisense compound resistant to nuclease.
Targets(IC50)	DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 50 mg/mL (57.08 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (2.85 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	1.1417 mL	5.7083 mL	11.4166 mL
5 mM	0.2283 mL	1.1417 mL	2.2833 mL
10 mM	0.1142 mL	0.5708 mL	1.1417 mL
50 mM	0.0228 mL	0.1142 mL	0.2283 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

Kawasaki AM, et, al. Uniformly modified 2'-deoxy-2'-fluoro phosphorothioate oligonucleotides as nuclease-resistant antisense compounds with high affinity and specificity for RNA targets. J Med Chem. 1993 Apr 2;36(7): 831-41.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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