DMT-2'fluoro-da(bz) amidite

Cat. No.: HY-21997

CAS No.: 136834-22-5

Molecular Formula: $C_{47}H_{51}FN_7O_7P$

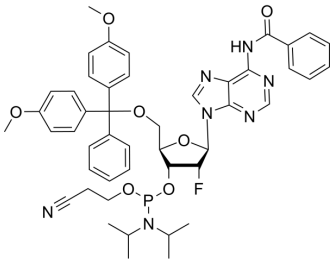
Molecular Weight: 875.92

Target: DNA/RNA Synthesis

Pathway: Cell Cycle/DNA Damage

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (114.17 mM; Need ultrasonic)

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.85 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Dmt-2'fluoro-da(bz) amidite, an uniformly modified 2'-deoxy-2'-fluoro phosphorothioate oligonucleotide, is a nuclease-resistant antisense compound with high affinity and specificity for RNA targets. Dmt-2'fluoro-da(bz) amidite is also an intermediate for 5'-DMT-3'-phosphoramidite synthesis[1].

REFERENCES

[1]. 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.

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

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