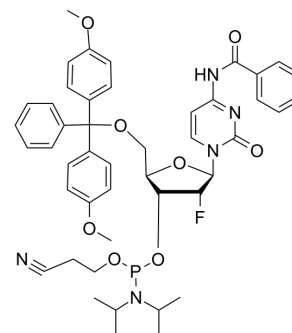


2'-F-Bz-dC Phosphoramidite

Cat. No.:	HY-138577
CAS No.:	161442-19-9
Molecular Formula:	C ₄₆ H ₅₁ FN ₅ O ₈ P
Molecular Weight:	851.9
Target:	Nucleoside Antimetabolite/Analog; DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (117.38 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.1738 mL	5.8692 mL	11.7385 mL
5 mM	0.2348 mL	1.1738 mL	2.3477 mL
10 mM	0.1174 mL	0.5869 mL	1.1738 mL

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

BIOLOGICAL ACTIVITY

Description

2'-F-Bz-dC Phosphoramidite can be used in the synthesis of oligoribonucleotide (such as DNA and RNA). 2'-F-Bz-dC Phosphoramidite also used for synthesis antiviral agent to inhibit the replication of virus. 2'-F-Bz-dC Phosphoramidite contains a phosphorothioate backbone, to synthesise antisense oligonucleotide analogs to induce apoptosis in cancer cells [1][2][3].

REFERENCES

- [1]. Zhang Hongyan, et al. Combined drug for treating hepatitis B and its application in preparing drugs for preventing and/or treating HBV (hepatitis B virus)-induced symptom or diseases. China, CN112007040 A. 2020-12-01.
- [2]. Monia Brett P, et al. Antisense oligonucleotides for modulation of telomerase catalytic subunit gene expression and treatment of cancer. World Intellectual Property Organization, WO2001088198 A1. 2001-11-22.
- [3]. Reif B, et, al. Structural Comparison of Oligoribonucleotides and Their 2'-Deoxy-2'-fluoro Analogs by heteronuclear NMR spectroscopy. Helvetica Chimica Acta. 1997 Jou; 80(6): 1952-1971.

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

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