DMT-2'Fluoro-DG(IB) Amidite

Cat. No.: HY-45492

CAS No.: 144089-97-4

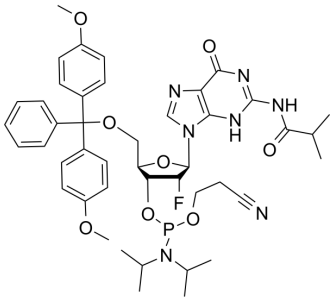
Molecular Formula: $C_{44}H_{53}FN_7O_8P$

Molecular Weight: 857.91

Target: Nucleoside Antimetabolite/Analog

Pathway: Cell Cycle/DNA Damage

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (116.56 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.1656 mL	5.8281 mL	11.6562 mL
	5 mM	0.2331 mL	1.1656 mL	2.3312 mL
	10 mM	0.1166 mL	0.5828 mL	1.1656 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 (2.91 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DMT-2'Fluoro-DG(IB) Amidite (2'-F-ibu-dG Phosphoramidite) is a nucleoside that can be used in the preparation of 4'-modified 2'-deoxy-2'-fluorouridine[1].

REFERENCES

[1]. Elise Malek-Adamian, et al. 4'-C-Methoxy-2'-deoxy-2'-fluoro Modified Ribonucleotides Improve Metabolic Stability and Elicit Efficient RNAi-Mediated Gene Silencing. J Am Chem Soc. 2017 Oct 18;139(41):14542-14555.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA