DMT-2'-OMe-Bz-C

Cat. No.: HY-W115186

CAS No.: 110764-74-4

Molecular Formula: $C_{38}H_{37}N_3O_8$

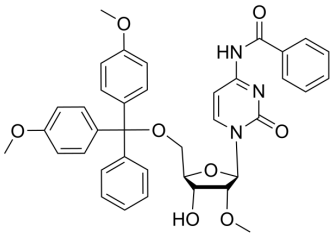
Molecular Weight: 663.72

Target: Nucleoside Antimetabolite/Analog

Pathway: Cell Cycle/DNA Damage

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (150.67 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.5067 mL	7.5333 mL	15.0666 mL
	5 mM	0.3013 mL	1.5067 mL	3.0133 mL
	10 mM	0.1507 mL	0.7533 mL	1.5067 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (3.77 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (3.77 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DMT-2'-OMe-Bz-C is a cytidine analog. Cytidine analogs have a mechanism of inhibiting DNA methyltransferases (such as Zebularine, HY-13420), and have potential anti-metabolic and anti-tumor activities[1].

REFERENCES

[1]. Gowher H, et al. Mechanism of inhibition of DNA methyltransferases by cytidine analogs in cancer therapy. Cancer Biol Ther. 2004 Nov;3(11):1062-8.

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

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