DMT-2'O-Methyl-rU Phosphoramidite

Cat. No.: HY-W101391

CAS No.: 110764-79-9

Molecular Formula: $C_{40}H_{49}N_4O_9P$

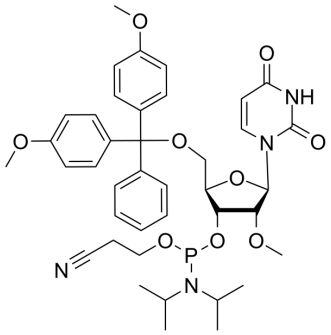
Molecular Weight: 760.81

Target: DNA/RNA Synthesis

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 (131.44 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.3144 mL	6.5719 mL	13.1439 mL
5 mM	0.2629 mL	1.3144 mL	2.6288 mL
10 mM	0.1314 mL	0.6572 mL	1.3144 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: ≥ 1.5 mg/mL (1.97 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.5 mg/mL (1.97 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DMT-2'O-Methyl-rU Phosphoramidite (2'-O-Me-U Phosphoramidite) is a 2'-O-Me derivative, and can be used for oligonucleotide synthesis[1][2].

REFERENCES

[1]. Stump MD, et al. The use of modified primers to eliminate cycle sequencing artifacts. Nucleic Acids Res. 1999 Dec 1;27(23):4642-8.

[2]. Takahashi M, et al. Synthesis and characterization of 2'-modified-4'-thioRNA: a comprehensive comparison of nuclease stability. Nucleic Acids Res. 2009 Mar;37(4):1353-62.

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