MedChemExpress

Product Data Sheet

0. P 0؍

N[∕]

Inhibitors • **Screening Libraries** • Proteins

NН

DMT-2'O-Methyl-rU Phosphoramidite

Cat. No.:	HY-W101391
CAS No.:	110764-79-9
Molecular Formula:	$C_{_{40}}H_{_{49}}N_{_4}O_{_9}P$
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

DMSO : 100 mg/mL (131.44 mM; Need ultrasonic)					
	Solvent Mass Concentration	1 mg	5 mg	10 mg	
Preparing Stock Solutions	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.					
 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 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.5 mg/mL (1.97 mM); Clear solution 					
	DMSO: 100 mg/mL (1 Preparing Stock Solutions Please refer to the sol 1. Add each solvent of Solubility: ≥ 1.5 mg 2. Add each solvent of Solubility: ≥ 1.5 mg	DMSO: 100 mg/mL (131.44 mM; Need ultrasonic) Preparing Stock Solutions 5 mM 10 mM Please refer to the solubility information to select the app 1. Add each solvent one by one: 10% DMSO >> 40% PEC Solubility: ≥ 1.5 mg/mL (1.97 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corr Solubility: ≥ 1.5 mg/mL (1.97 mM); Clear solution	DMSO: 100 mg/mL (131.44 mM; Need ultrasonic) Solvent 1 mg Preparing 1 mM Stock Solutions 1 mM 5 mM 0.2629 mL 10 mM 0.1314 mL Please refer to the solubility information to select the appropriate solvent. 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 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	DMSO : 100 mg/mL (131.44 mM; Need ultrasonic) Solvent 1 mg 5 mg Preparing 1 mM 1.3144 mL 6.5719 mL Stock Solutions 5 mM 0.2629 mL 1.3144 mL 10 mM 0.1314 mL 0.6572 mL Please refer to the solubility information to select the appropriate solvent. 0.6572 mL 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 DMT-2'O-Methyl-rU Phosphoramidite (2'-O-Me-U Phosphoramidite) is a 2'-O-Me derivative, and can be used for Description 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