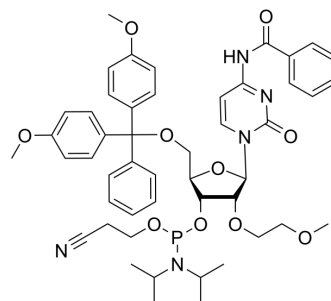


2'-O-MOE-rC

Cat. No.:	HY-W570885
CAS No.:	251647-54-8
Molecular Formula:	C ₄₉ H ₅₈ N ₅ O ₁₀ P
Molecular Weight:	907.99
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 (110.13 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.1013 mL	5.5067 mL	11.0133 mL
		5 mM		0.2203 mL	1.1013 mL	2.2027 mL
10 mM		0.1101 mL	0.5507 mL	1.1013 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 (2.75 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	2'-O-MOE-rC is a 2'-O-MOE modified nucleoside. 2'-O-MOE-rC can be used for synthesis of DNA ^{[1][2]} .
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REFERENCES

[1]. Prakash TP, et al. Comparing in vitro and in vivo activity of 2'-O-[2-(methylamino)-2-oxoethyl]- and 2'-O-methoxyethyl-modified antisense oligonucleotides. J Med Chem. 2008 May 8;51(9):2766-76.

[2]. Li M, et al. Synthesis and cellular activity of stereochemically-pure 2'-O-(2-methoxyethyl)-phosphorothioate oligonucleotides. Chem Commun (Camb). 2017 Jan 3;53(3):541-544.

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

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