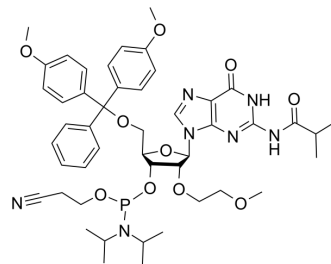


## DMT-2'O-MOE-rG(ib) Phosphoramidite

Cat. No.:	HY-104014
CAS No.:	251647-55-9
Molecular Formula:	C <sub>47</sub> H <sub>60</sub> N <sub>7</sub> O <sub>10</sub> P
Molecular Weight:	913.99
Target:	DNA/RNA Synthesis; 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 : 250 mg/mL (273.53 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.0941 mL	5.4705 mL	10.9410 mL
	5 mM	0.2188 mL	1.0941 mL	2.1882 mL
	10 mM	0.1094 mL	0.5471 mL	1.0941 mL

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

### BIOLOGICAL ACTIVITY

#### Description

DMT-2'O-MOE-rG(ib) Phosphoramidite (1g), belonging to the amide family of trivalent phosphate H<sub>3</sub>PO<sub>3</sub>, is a derivative of nucleotides and guanosine and can be used in the stereochemical synthesis of phosphorothioate oligonucleotides<sup>[1]</sup>.

### REFERENCES

[1]. Vasulinga T, et al. Stereoselective Synthesis of Alkylphosphonates: A Facile Rearrangement of Cyanoethyl-Protected Nucleoside Phosphoramidites. Org. Proc. Res. Dev. 2004, 8, 4, 603–608

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

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