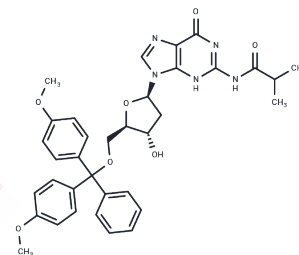


## 5'-O-DMT-N2-ibu-dG

## Chemical Properties

CAS No. :	68892-41-1
Formula:	C35H37N5O7
Molecular Weight:	639.7
Storage:	Store under nitrogen Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	5'-O-DMT-N2-ibu-dG is a deoxynucleoside used in the preparation of oligonucleotides, served as a building block in oligonucleotide synthesis, with protecting groups to prevent unwanted reactions during synthesis.
Targets(IC50)	Nucleoside Antimetabolite/Analog, DNA/RNA Synthesis

## Solubility Information

Solubility	DMSO: 80 mg/mL (125.06 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (5.16 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5632 mL	7.8162 mL	15.6323 mL
5 mM	0.3126 mL	1.5632 mL	3.1265 mL
10 mM	0.1563 mL	0.7816 mL	1.5632 mL
50 mM	0.0313 mL	0.1563 mL	0.3126 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Meinolf Lange, et al. Synthesis of oligonucleotides. WO2008141682A1.

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