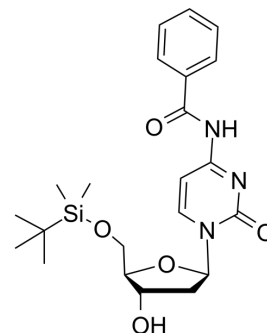


## 5-O-TBDMS-N4-Benzoyl-2-deoxycytidine

<b>Cat. No.:</b>	HY-138593
<b>CAS No.:</b>	51549-36-1
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>31</sub> N <sub>3</sub> O <sub>5</sub> Si
<b>Molecular Weight:</b>	445.58
<b>Target:</b>	DNA/RNA Synthesis; Nucleoside Antimetabolite/Analog
<b>Pathway:</b>	Cell Cycle/DNA Damage
<b>Storage:</b>	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 (561.07 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.2443 mL	11.2213 mL	22.4427 mL
	5 mM	0.4489 mL	2.2443 mL	4.4885 mL
	10 mM	0.2244 mL	1.1221 mL	2.2443 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (4.67 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (4.67 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (4.67 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

5-O-TBDMS-N4-Benzoyl-2-deoxycytidine is a modified nucleoside. 5-O-TBDMS-N4-Benzoyl-2-deoxycytidine can be used in the synthesis of deoxyribonucleic acid or nucleic acid.

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

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