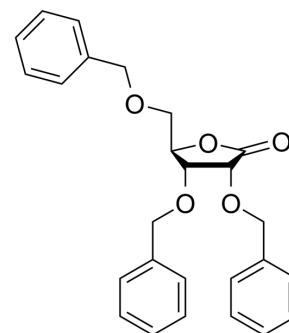


## 2,3,5-Tri-O-benzyl-D-ribo-1,4-lactone

Cat. No.:	HY-W018604
CAS No.:	55094-52-5
Molecular Formula:	C <sub>26</sub> H <sub>26</sub> O <sub>5</sub>
Molecular Weight:	418.48
Target:	Nucleoside Antimetabolite/Analog
Pathway:	Cell Cycle/DNA Damage
Storage:	<div> <div>Powder</div> <div> -20°C 3 years 4°C 2 years </div> </div> <div> <div>In solvent</div> <div> -80°C 6 months -20°C 1 month </div> </div>



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (238.96 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div>Solvent Concentration</div>	Mass	1 mg	5 mg	10 mg
		1 mM	2.3896 mL	11.9480 mL	23.8960 mL	
		5 mM	0.4779 mL	2.3896 mL	4.7792 mL	
	10 mM	0.2390 mL	1.1948 mL	2.3896 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 (5.97 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	2,3,5-Tri-O-benzyl-D-ribo-1,4-lactone is a purine nucleoside analog. Purine nucleoside analogs have broad antitumor activity targeting indolent lymphoid malignancies. Anticancer mechanisms in this process rely on inhibition of DNA synthesis, induction of apoptosis, etc <sup>[1]</sup> .
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### REFERENCES

[1]. Robak T, Robak P. Purine nucleoside analogs in the treatment of rarer chronic lymphoid leukemias. Curr Pharm Des. 2012;18(23):3373-88.

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

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