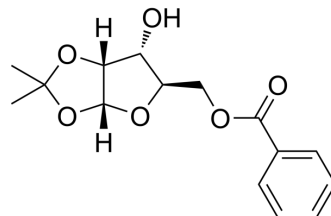


## (R)-5-O-Benzoyl-1,2-di-O-isopropylidene-alpha-D-xylofuranose

<b>Cat. No.:</b>	HY-43426	
<b>CAS No.:</b>	6612-91-5	
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>18</sub> O <sub>6</sub>	
<b>Molecular Weight:</b>	294.3	
<b>Target:</b>	Nucleoside Antimetabolite/Analog	
<b>Pathway:</b>	Cell Cycle/DNA Damage	
<b>Storage:</b>	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (339.79 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.3979 mL	16.9895 mL	33.9789 mL
	5 mM	0.6796 mL	3.3979 mL	6.7958 mL
	10 mM	0.3398 mL	1.6989 mL	3.3979 mL

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

### BIOLOGICAL ACTIVITY

#### Description

(R)-5-O-Benzoyl-1,2-di-O-isopropylidene-alpha-D-xylofuranose 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>.

### 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.

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

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