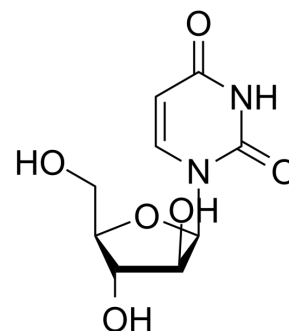


## 1-beta-D-Arabinofuranosyluracil

<b>Cat. No.:</b>	HY-N6652		
<b>CAS No.:</b>	3083-77-0		
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>12</sub> N <sub>2</sub> O <sub>6</sub>		
<b>Molecular Weight:</b>	244.2		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<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 : 50 mg/mL (204.75 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.0950 mL	20.4750 mL	40.9500 mL
	5 mM		0.8190 mL	4.0950 mL	8.1900 mL
	10 mM		0.4095 mL	2.0475 mL	4.0950 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: ≥ 2.5 mg/mL (10.24 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (10.24 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (10.24 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

1-beta-D-Arabinofuranosyluracil (Uracil 1-β-D-arabinofuranoside) isolated from the Caribbean sponge *Tectitethya crypta*, is a methoxyadenosine derivative. 1-beta-D-Arabinofuranosyluracil has demonstrated a diverse bioactivity profile including anti-inflammatory activity, analgesic and vasodilation properties<sup>[1]</sup>. 1-beta-D-Arabinofuranosyluracil reduces a proliferation of mouse lymphoma cells<sup>[2]</sup>.

### CUSTOMER VALIDATION

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- Research Square Preprint. 2021 Aug.

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## REFERENCES

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- [1]. Bertin MJ, et al. Spongiosine production by a *Vibrio harveyi* strain associated with the sponge *Tectitethya crypta*. *J Nat Prod*. 2015 Mar 27;78(3):493-9.
- [2]. Müller WE, et al. Metabolism of 1-beta-D-arabinofuranosyluracil in mouse L5178Y cells. *Cancer Res*. 1979 Mar;39(3):1102-7.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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