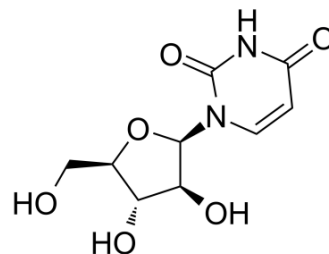


1-beta-D-Arabinofuranosyluracil

Cat. No.:	HY-N6652		
CAS No.:	3083-77-0		
Molecular Formula:	C ₉ H ₁₂ N ₂ O ₆		
Molecular Weight:	244.2		
Target:	Others		
Pathway:	Others		
Storage:	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 (409.50 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration \ Mass	1 mg	5 mg	10 mg
	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^[1]. 1-beta-D-Arabinofuranosyluracil reduces a proliferation of mouse lymphoma cells^[2].

REFERENCES

- [1]. Bertin MJ, et al. Spongosine 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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