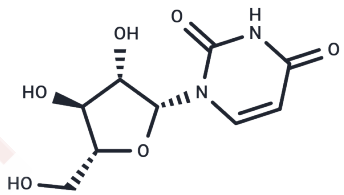
Data Sheet (Cat.No.T5979)

TargetMol

1-beta-D-Arabinofuranosyluracil

Chemical Properties



CAS No. : 3083-77-0

Formula: C9H12N2O6

Molecular Weight: 244.2

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	1-beta-D-Arabinofuranosyluracil (Uracil 1-β-D-arabinofuranoside), isolated from the Caribbean sponge [Tectitethya crypta], is a methoxyadenosine derivative with anti-inflammatory activity, analgesic, and vasodilation properties.
Targets(IC50)	Others
In vivo	1-β-d-Arabinofuranosyluracil (ara-U) reduces a proliferation of L5178Y mouse lymphoma cells at 17 μm, concentration which, in a dose-response experiment, induced 50% inhibition of cell proliferation[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (225.23 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.19 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.095 mL	20.475 mL	40.950 mL
5 mM	0.819 mL	4.095 mL	8.190 mL
10 mM	0.4095 mL	2.0475 mL	4.095 mL
50 mM	0.0819 mL	0.4095 mL	0.819 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

W E Müller, Zahn R K . Metabolism of 1-beta-D-arabinofuranosyluracil in mouse L5178Y cells.[J]. Cancer Research, 1979, 39(3):1102-1107.

Bertin M J , Schwartz S L , Lee J , et al. Spongosine Production by a Vibrio harveyi Strain Associated with the Sponge Tectitethya crypta[J]. Journal of Natural Products, 2015, 78(3):493-499.