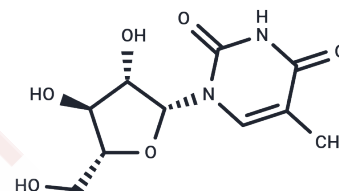


## 1-beta-D-Arabinofuranosylthymine

## Chemical Properties

CAS No. :	605-23-2
Formula:	C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> O <sub>6</sub>
Molecular Weight:	258.23
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-Arabinofuranosylthymine (Thymine 1-β-D-arabinofuranoside) is a purine nucleoside analog. Purine nucleoside analogs have a broad spectrum of antitumor activity, targeting inert lymphoid malignancies and inducing apoptosis. 1-beta-D-Arabinofuranosylthymine's anticancer mechanism is dependent on the inhibition of DNA synthesis. 1-beta-D-Arabinofuranosylthymine is a purine nucleoside analog.
Targets(IC50)	Apoptosis, Nucleoside Antimetabolite/Analog, DNA/RNA Synthesis

## Solubility Information

Solubility	DMSO: 55 mg/mL (212.99 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8725 mL	19.3626 mL	38.7252 mL
5 mM	0.7745 mL	3.8725 mL	7.745 mL
10 mM	0.3873 mL	1.9363 mL	3.8725 mL
50 mM	0.0775 mL	0.3873 mL	0.7745 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

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

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