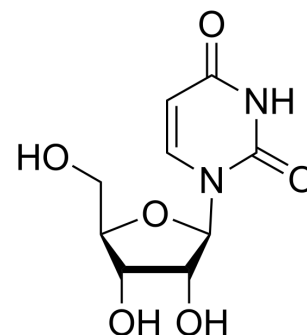


## Uridine

<b>Cat. No.:</b>	HY-B1449	
<b>CAS No.:</b>	58-96-8	
<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>	Endogenous Metabolite; Nucleoside Antimetabolite/Analog	
<b>Pathway:</b>	Metabolic Enzyme/Protease; 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

H<sub>2</sub>O : ≥ 100 mg/mL (409.50 mM)  
 DMSO : 50 mg/mL (204.75 mM; Need ultrasonic)  
 \* "≥" 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: PBS  
Solubility: 40 mg/mL (163.80 mM); Clear solution; Need ultrasonic
- 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); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (10.24 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Uridine (β-Uridine) is a glycosylated pyrimidine-analog containing uracil attached to a ribose ring (or more specifically, aribofuranose) via a β-N1-glycosidic bond.

**CUSTOMER VALIDATION**

- Cell Death Differ. 2024 Jan 5.
- Cell Prolif. 2023 Apr 21;e13442.
- Biomed Pharmacother. 2019 Aug;116:108982.
- Biomed Pharmacother. 2019 Oct;118:109305.
- Int J Mol Sci. 2023 Mar 7.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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

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