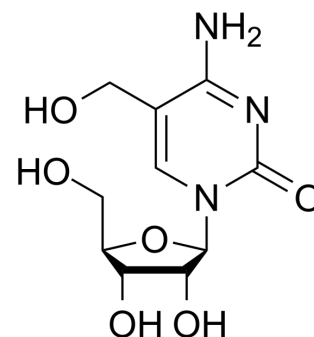


## 5-(Hydroxymethyl)cytidine

<b>Cat. No.:</b>	HY-152854
<b>CAS No.:</b>	19235-17-7
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>15</sub> N <sub>3</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	273.24
<b>Target:</b>	Nucleoside Antimetabolite/Analog
<b>Pathway:</b>	Cell Cycle/DNA Damage
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 20.83 mg/mL (76.23 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.6598 mL	18.2989 mL	36.5979 mL
	5 mM		0.7320 mL	3.6598 mL	7.3196 mL
	10 mM		0.3660 mL	1.8299 mL	3.6598 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

5-(Hydroxymethyl)cytidine is a purine nucleoside analogue. Purine nucleoside analogs have broad antitumor activity targeting indolent lymphoid malignancies. Anticancer mechanisms in this process rely on inhibition of DNA synthesis, induction of apoptosis, etc<sup>[1]</sup>.

### REFERENCES

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

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

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