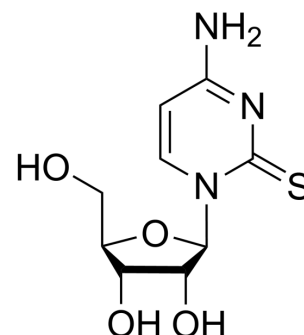


## 2-Thiocytidine

<b>Cat. No.:</b>	HY-W244398
<b>CAS No.:</b>	13239-97-9
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>13</sub> N <sub>3</sub> O <sub>4</sub> S
<b>Molecular Weight:</b>	259.28
<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

DMSO : 125 mg/mL (482.10 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.8568 mL	19.2842 mL	38.5683 mL
	5 mM	0.7714 mL	3.8568 mL	7.7137 mL
	10 mM	0.3857 mL	1.9284 mL	3.8568 mL

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

### BIOLOGICAL ACTIVITY

#### Description

2-Thiocytidine is a purine nucleoside analog. 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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