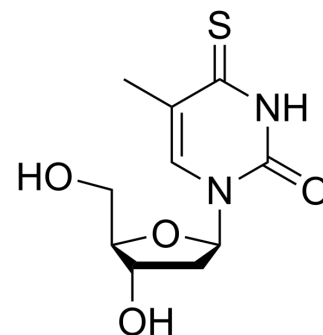


4-Thiothymidine

Cat. No.: HY-W587829
CAS No.: 7236-57-9
Molecular Formula: C₁₀H₁₄N₂O₄S
Molecular Weight: 258.29
Target: Nucleoside Antimetabolite/Analog
Pathway: Cell Cycle/DNA Damage
Storage: 4°C, protect from light
 * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (483.95 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.8716 mL	19.3581 mL	38.7162 mL
	5 mM	0.7743 mL	3.8716 mL	7.7432 mL
	10 mM	0.3872 mL	1.9358 mL	3.8716 mL

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

BIOLOGICAL ACTIVITY

Description

4-Thiothymidine is a pyrimidine nucleoside analog. Pyrimidine 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^[1].

REFERENCES

[1]. Robak T, Robak P. Pyrimidine 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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