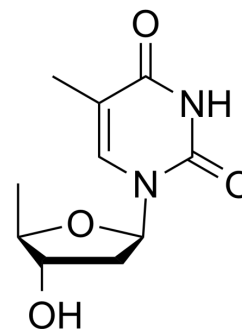


5'-Deoxythymidine

| | |
|--------------------|--|
| Cat. No.: | HY-124425 |
| CAS No.: | 3458-14-8 |
| Molecular Formula: | C ₁₀ H ₁₄ N ₂ O ₄ |
| Molecular Weight: | 226.23 |
| Target: | Antibiotic |
| Pathway: | Anti-infection |
| 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 (552.54 mM)
 H₂O : 50 mg/mL (221.01 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

| | Solvent Concentration | Mass | 1 mg | 5 mg | 10 mg |
|------------------------------|--------------------------|------|-----------|------------|------------|
| | | | | | |
| Preparing Stock Solutions | 1 mM | | 4.4203 mL | 22.1014 mL | 44.2028 mL |
| | 5 mM | | 0.8841 mL | 4.4203 mL | 8.8406 mL |
| | 10 mM | | 0.4420 mL | 2.2101 mL | 4.4203 mL |

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

BIOLOGICAL ACTIVITY

Description

5'-Deoxythymidine is a thymidine form which 5' position replaced with hydrogen. 5'-deoxy Thymidine is effective against *Bacillus subtilis* and *Staphylococcus aureus*. 5'-Deoxythymidine can be used as a research tool for antiviral and anticancer studies^[1].

REFERENCES

[1]. Hatano A, et al. Impact of unnatural nucleosides on the control of microbial growth. *Biocontrol Sci.* 2009;14(2):55-60.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA