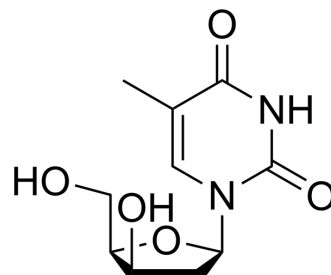


## 1-(2-Deoxy-β-D-threo-pentofuranosyl)thymine

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-154524  |
| <b>CAS No.:</b>           | 16053-52-4   |
| <b>Molecular Formula:</b> | C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> O <sub>5</sub>                                  |
| <b>Molecular Weight:</b>  | 242.23   |
| <b>Target:</b>            | Nucleoside Antimetabolite/Analog   |
| <b>Pathway:</b>           | Cell Cycle/DNA Damage  |
| <b>Storage:</b>           | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 250 mg/mL (1032.08 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent Concentration | Mass      |            |            |
|---------------------------|-----------------------|-----------|------------|------------|
|                           |                       | 1 mg      | 5 mg       | 10 mg      |
|                           | 1 mM                  | 4.1283 mL | 20.6415 mL | 41.2831 mL |
|                           | 5 mM                  | 0.8257 mL | 4.1283 mL  | 8.2566 mL  |
|                           | 10 mM                 | 0.4128 mL | 2.0642 mL  | 4.1283 mL  |

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

### BIOLOGICAL ACTIVITY

#### Description

1-(2-Deoxy-β-D-threo-pentofuranosyl)thymine is a thymidine analog. Analogs of this series have insertional activity towards replicated DNA. They can be used to label cells and track DNA synthesis<sup>[1]</sup>.

### REFERENCES

[1]. Cavanagh BL, et al. Thymidine analogues for tracking DNA synthesis. *Molecules*. 2011 Sep 15;16(9):7980-93.

**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