

## Sp-Thymidine-5'-O-(1-thiotriphosphate) sodium

## Chemical Properties

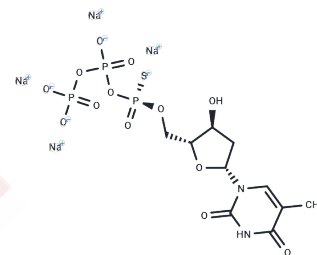
CAS No. :

Formula: C<sub>10</sub>H<sub>13</sub>N<sub>2</sub>O<sub>13</sub>P<sub>3</sub>S<sub>4</sub>Na

Molecular Weight: 586.16

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

|               |   |
|---------------|---|
| Description   | Sp-Thymidine-5'-O-(1-thiotriphosphate) (Sp-TTP- $\alpha$ -S), an isomer of the sulfur-containing nucleotide derivative TTP- $\alpha$ -S, exhibits affinity for HIV-1 reverse transcriptase with dissociation constants (K <sub>d</sub> s) of 2.88, 4.23, and 20.21 $\mu$ M in the presence of magnesium, manganate, and cobalt, respectively. Additionally, Sp-TTP- $\alpha$ -S effectively inhibits the enzyme deoxynucleoside triphosphate triphosphohydrolase SAMHD1 with an inhibition constant (K <sub>i</sub> ) of 46 nM. |
| Targets(IC50) | Others  |

## Solubility Information

|            |  |
|------------|--|
| Solubility | H <sub>2</sub> O: Soluble<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.706 mL  | 8.5301 mL | 17.0602 mL |
| 5 mM  | 0.3412 mL | 1.706 mL  | 3.412 mL   |
| 10 mM | 0.1706 mL | 0.853 mL  | 1.706 mL   |
| 50 mM | 0.0341 mL | 0.1706 mL | 0.3412 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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