

## Sp-2'-Deoxycytidine-5'-O-(1-thiotriphosphate) sodium

### Chemical Properties

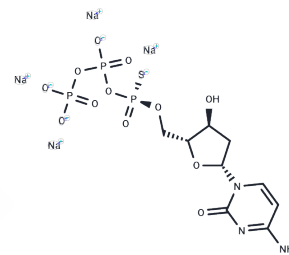
CAS No. :

Formula: C<sub>9</sub>H<sub>12</sub>N<sub>3</sub>O<sub>12</sub>P<sub>3</sub>S.4Na

Molecular Weight: 571.10

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-2'-Deoxycytidine-5'-O-(1-thiotriphosphate) (Sp-dCTP- $\alpha$ -S), an isomer of the sulfur-containing nucleotide derivative dCTP- $\alpha$ -S, functions as an inhibitor of the deoxynucleoside triphosphate triphosphohydrolase SAMHD1, with an inhibition constant (K <sub>i</sub> ) of 6.3 $\mu$ M. |
| 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  | 1.751 mL  | 8.755 mL  | 17.5101 mL |
| 5 mM  | 0.3502 mL | 1.751 mL  | 3.502 mL   |
| 10 mM | 0.1751 mL | 0.8755 mL | 1.751 mL   |
| 50 mM | 0.035 mL  | 0.1751 mL | 0.3502 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**

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