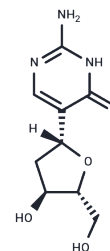


2'-Deoxypseudoisocytidine

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 65358-18-1 |
| Formula: | C ₉ H ₁₃ N ₃ O ₄ |
| Molecular Weight: | 227.22 |
| 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 | 2'-Deoxypseudoisocytidine, a nucleoside analogue, is characterized by its structural similarity to natural nucleosides in DNA, featuring a modified sugar moiety with a deoxygenated (2') position. It serves as a significant compound in biochemical research and medical applications for its ability to mimic the behavior of endogenous nucleosides. |
| Targets(IC50) | Nucleoside Antimetabolite/Analog,Others |
| In vitro | 2'-Deoxypseudoisocytidine is a modified base utilized as an allele-specific blocker probe for discriminating sequence variations between alleles and quantifying rare (e.g., mutant) allelic variants [1]. Additionally, 2'-Deoxypseudoisocytidine and its analogues serve as novel base-pairing agents in oligonucleotides to study DNA and RNA structures and functions [2]. |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 106.5 mg/mL (468.71 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.401 mL | 22.0051 mL | 44.0102 mL |
| 5 mM | 0.8802 mL | 4.401 mL | 8.802 mL |
| 10 mM | 0.4401 mL | 2.2005 mL | 4.401 mL |
| 50 mM | 0.088 mL | 0.4401 mL | 0.8802 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.

Reference

Caifu Chen, et al. Methods, Compositions, and Kits for Detecting Allelic Variants. US 20100285478 A1.
Serpi M, et al. Synthetic Approaches for the Preparation of Phosphoramidate Prodrugs of 2'-Deoxypseudoisocytidine. ChemistryOpen. 2017 May 5;6(3):424-436.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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