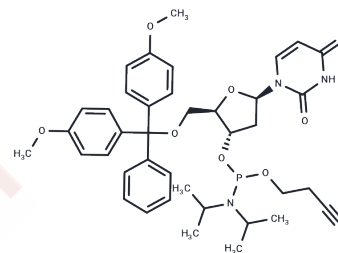


DMT-dU-CE Phosphoramidite

Chemical Properties

CAS No. : 109389-30-2
 Formula: C39H47N4O8P
 Molecular Weight: 730.79
 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 | DMT-dU-CE Phosphoramidite is a nucleoside molecule commonly utilized in DNA synthesis and sequencing. |
| Targets(IC50) | DNA/RNA Synthesis |
| In vitro | DMT-dU-CE Phosphoramidite is utilized in DNA synthesis and sequencing assays [1]. |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 95 mg/mL (130 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (4.52 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.3684 mL | 6.8419 mL | 13.6838 mL |
| 5 mM | 0.2737 mL | 1.3684 mL | 2.7368 mL |
| 10 mM | 0.1368 mL | 0.6842 mL | 1.3684 mL |
| 50 mM | 0.0274 mL | 0.1368 mL | 0.2737 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

Hatano A, et, al. Synthesis of a protected ribonucleoside phosphoramidite-linked spin label via an alkynyl chain at the 5' position of uridine. *Synthetic Communications*. 2019; 49(1).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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