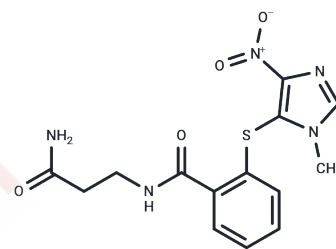


Nipamovir

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2651908-78-8 |
| Formula: | C ₁₄ H ₁₅ N ₅ O ₄ S |
| Molecular Weight: | 349.37 |
| 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 | Nipamovir is a nitroimidazole prodrug. In cell-based assay systems and ex vivo models of human HIV infection, Nipamovir exhibits antiviral activity similar to that of SAMT-247 and NS-1040 with lower cytotoxicity. For the two systems of CEM-SS/HIV-1RF and hPBMC/HIV-192HT599, the EC ₅₀ values of Nipamovir are 3.64±3.28 μM and 3.23±2.81 μM, respectively. |
| Targets(IC ₅₀) | HIV Protease |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 80 mg/mL (228.98 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.8623 mL | 14.3115 mL | 28.6229 mL |
| 5 mM | 0.5725 mL | 2.8623 mL | 5.7246 mL |
| 10 mM | 0.2862 mL | 1.4311 mL | 2.8623 mL |
| 50 mM | 0.0572 mL | 0.2862 mL | 0.5725 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

Marco Robello, et al. Prodrug Strategy Extends the Use of Anti-HIV Sulfanylbenzamides for Application In Vivo. ACS Pharmacol. Transl. Sci. December 14, 2023.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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