

SP-471P

Chemical Properties

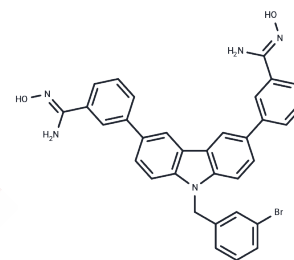
CAS No. : 2768011-36-3

Formula: C33H26BrN5O2

Molecular Weight: 604.5

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-471P is a potent inhibitor of dengue virus (DENV) protease, exhibiting half-maximal effective concentrations (EC50) of 5.9 μM for DENV1, 1.4 μM for DENV2, 5.1 μM for DENV3, and 1.7 μM for DENV4, with a cytotoxic concentration (CC50) greater than 100 μM . Additionally, SP-471P effectively reduces DENV viral RNA synthesis [1].
Targets(IC50)	Anti-infection,Others,DNA/RNA Synthesis,Virus Protease
In vitro	SP-471P demonstrates low micromolar potency against DENV1, DENV2, DENV3, and DENV4, with EC50 values of 5.9 μM , 1.4 μM , 5.1 μM , and 1.7 μM , respectively [1]. At a concentration of 10 μM and an incubation period of 48 hours, it achieves an EC50 of 1.5 μM against ADE infection in human peripheral blood mononuclear cells [1]. Additionally, at the same concentration over a 6-54 hour period, it diminishes viral RNA synthesis in DENV2 [1], and at 30 hours post-treatment, SP-471P targets the NS3 int cleavage site in DENV2-infected Huh7 cells [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6543 mL	8.2713 mL	16.5426 mL
5 mM	0.3309 mL	1.6543 mL	3.3085 mL
10 mM	0.1654 mL	0.8271 mL	1.6543 mL
50 mM	0.0331 mL	0.1654 mL	0.3309 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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