

FLS-359

Chemical Properties

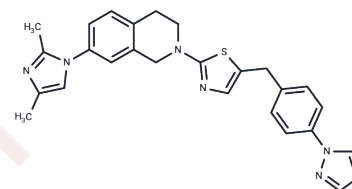
CAS No. : 2309398-79-4

Formula: C₂₇H₂₆N₆S

Molecular Weight: 466.6

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	FLS-359, a selective and orally active allosteric modulator for sirtuin 2, has an IC ₅₀ of 3 μM. It displays antiviral activity against both RNA and DNA viruses by inhibiting DNA/RNA replication [1].
Targets(IC ₅₀)	Sirtuin
In vitro	FLS-359 (0-100 μM) inhibits the deacetylation of histone H3 by SIRT2, demonstrating substrate selectivity [1]. It suppresses the growth of various RNA and DNA viruses, including SARS-CoV-2, influenza A, hepatitis B, and respiratory syncytial virus, with an IC ₅₀ range of 0.3-6.7 μM [1]. FLS-359 (0-10 μM, 24 h) hinders lytic activation of the Epstein-Barr virus (EBV) in Akata cells and the spread of human cytomegalovirus (HCMV) in diploid fibroblasts (IC ₅₀ 0.466 μM) [1]. FLS-359 (0-5 μM, 72 h) also reduces intracellular viral nucleic acid accumulation, extracellular viral particle production, and the infectivity of viral particles [1].
In vivo	Administered orally at a dose of 50 mg/kg, FLS-359 demonstrates good plasma exposure, with a half-life of 6 hours, C _{max} of 89 μM, and an AUC of 713 μM•h/mL [1]. When given at the same dose twice daily for 11 days, FLS-359 inhibits human cytomegalovirus (HCMV) infection in immunodeficient mice [1]. Animal models used include the mouse gelfoam-fibroblast model and the human lung-only mouse model [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1432 mL	10.7158 mL	21.4316 mL
5 mM	0.4286 mL	2.1432 mL	4.2863 mL
10 mM	0.2143 mL	1.0716 mL	2.1432 mL
50 mM	0.0429 mL	0.2143 mL	0.4286 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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