

SIRT5 inhibitor 6

Chemical Properties

CAS No. : 2834736-82-0

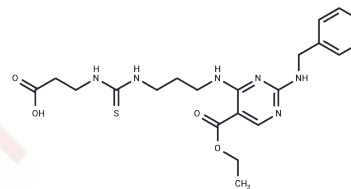
Formula: C₂₁H₂₈N₆O₄S

Molecular Weight: 460.55

Store at low temperature

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	SIRT5 inhibitor 6 is a novel and potent Sirtuin 5 inhibitor with an IC ₅₀ = 310 nM for the treatment of sepsis-associated acute kidney injury (AKI) that modulates protein succinylation and pro-inflammatory cytokine release in the kidney and attenuates renal dysfunction and pathologic injury.
Targets(IC ₅₀)	Sirtuin
In vitro	SIRT5 inhibitor 6 is a selective SIRT5 inhibitor with an IC ₅₀ of 3.0 μM and shows no inhibition of SIRT1-3 in vitro, indicating good selectivity[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1713 mL	10.8566 mL	21.7132 mL
5 mM	0.4343 mL	2.1713 mL	4.3426 mL
10 mM	0.2171 mL	1.0857 mL	2.1713 mL
50 mM	0.0434 mL	0.2171 mL	0.4343 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

Mou L, et al. Structure-Activity Relationship Studies of 2,4,5-Trisubstituted Pyrimidine Derivatives Leading to the Identification of a Novel and Potent Sirtuin 5 Inhibitor against Sepsis-Associated Acute Kidney Injury. J Med Chem. 2023 Aug 24;66(16):11517-11535.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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