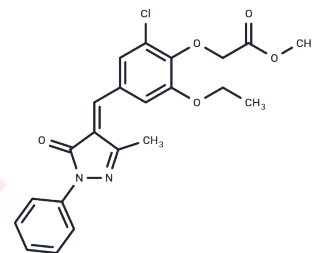


SJ-172550

Chemical Properties

CAS No. : 431979-47-4
 Formula: C₂₂H₂₁ClN₂O₅
 Molecular Weight: 428.87
 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	SJ-172550 is a small molecule inhibitor of MDMX (EC ₅₀ : 5 μM).
Targets(IC ₅₀)	Mdm2,E1/E2/E3 Enzyme,MDM-2/p53
In vitro	SJ-172550 interacts with the p53-binding pocket of MDMX, effectively displacing p53 and reversibly binding to MDMX, resulting in the death of retinoblastoma cells with amplified MDMX expression. This compound establishes a covalent, yet reversible, complex with MDMX, which prohibits MDMX from binding to p53. The efficacy of SJ-172550 is enhanced when used in conjunction with the MDM2 inhibitor, nutlin-3a. The stability of the SJ-172550/MDMX complex is dependent on several factors, such as the media's reducing potential and the presence of aggregates.

Solubility Information

Solubility	DMSO: 33.33 mg/mL (77.72 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (4.66 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	2.3317 mL	11.6585 mL	23.3171 mL
5 mM	0.4663 mL	2.3317 mL	4.6634 mL
10 mM	0.2332 mL	1.1659 mL	2.3317 mL
50 mM	0.0466 mL	0.2332 mL	0.4663 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

Reed D, et al. Identification and characterization of the first small molecule inhibitor of MDMX. J Biol Chem. 2010 Apr 2;285(14):10786-96.

Bista M, et al. On the mechanism of action of SJ-172550 in inhibiting the interaction of MDM4 and p53. PLoS One. 2012;7(6):e37518.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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