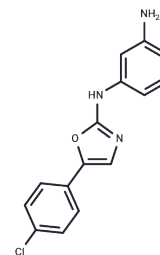


SIRT7 inhibitor 97491

Chemical Properties

CAS No. :	1807758-81-1
Formula:	C ₁₅ H ₁₂ ClN ₃ O
Molecular Weight:	285.73
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	SIRT7 inhibitor 97491 is an HDAC inhibitor with high specificity for SIRT7 (IC ₅₀ = 325 nM). SIRT7 inhibitor 97491 promotes apoptosis through caspase pathway.
Targets(IC ₅₀)	Apoptosis, Sirtuin
In vitro	SIRT7 inhibitor 97491 (1-10 μM) effectively reduces the proliferation of human uterine sarcoma MES-SA cells by over 50% at 5 and 10 μM after 72 hours, without cytotoxic effects on HEK293 human embryonic kidney cells after 24 hours of exposure, indicating selective action[1].
In vivo	The SIRT7 inhibitor 97491 (2 mg/kg; intraperitoneally injected; for 3 weeks, except on weekends) effectively suppresses tumor growth in xenograft mice[1]. Utilizing Balb/c nude mice (18-20 g; 6-8 weeks old) implanted with MES-SA cells[1], the dosage administered was 2 mg/kg via intraperitoneal injection over a three-week period, excluding weekends. The outcome was a significant inhibition of cancer growth in vivo.

Solubility Information

Solubility	DMSO: 250 mg/mL (874.95 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 5 mg/mL (17.5 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	3.4998 mL	17.499 mL	34.9981 mL
5 mM	0.700 mL	3.4998 mL	6.9996 mL
10 mM	0.350 mL	1.7499 mL	3.4998 mL
50 mM	0.070 mL	0.350 mL	0.700 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

Ji-Hye Kim, et al. Identification of a Novel SIRT7 Inhibitor as Anticancer Drug Candidate. *Biochem Biophys Res Commun.* 2019 Jan 8;508(2):451-457.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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