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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
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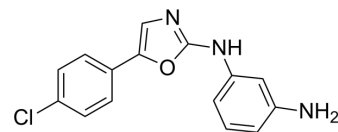
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SIRT7 inhibitor 97491

Cat. No.:	HY-135899
CAS No.:	1807758-81-1
Molecular Formula:	C ₁₅ H ₁₂ ClN ₃ O
Molecular Weight:	285.73
Target:	Sirtuin; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Apoptosis
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 500 mg/mL (1749.90 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	3.4998 mL	17.4990 mL	34.9981 mL	
		5 mM	0.7000 mL	3.4998 mL	6.9996 mL	
		10 mM	0.3500 mL	1.7499 mL	3.4998 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 50% PEG300 >> 50% saline Solubility: 10 mg/mL (35.00 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 4.17 mg/mL (14.59 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	SIRT7 inhibitor 97491, a potent SIRT7 inhibitor with an IC ₅₀ of 325 nM, reduces deacetylase activity of SIRT7 in a dose-dependent manner. SIRT7 inhibitor 97491 prevents tumor progression by increasing p53 stability through acetylation at K373/382. SIRT7 inhibitor 97491 promotes apoptosis through caspase pathway. ^[1]
IC ₅₀ & Target	SIRT7 325 nM (IC ₅₀)
In Vitro	SIRT7 inhibitor 97491 (1-10 μM) reduces cell growth in MES-SA cells, without causing cytotoxicity in HEK293 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]

Cell Line:	Human uterine sarcoma MES-SA cells
Concentration:	1, 5, 10 μ M
Incubation Time:	72 hours
Result:	Led to more than 50% decrease in cell proliferation at concentrations of 5 and 10 μ M.

Cell Cytotoxicity Assay^[1]

Cell Line:	Human embryonic kidney cell line HEK293 cells
Concentration:	1, 5, 10 μ M
Incubation Time:	24 hours
Result:	HEK293 cells were almost unaffected.

In Vivo

SIRT7 inhibitor 97491 (2 mg/kg; intraperitoneally injected; for 3 weeks, except on weekends) inhibits tumor growth in xenograft mice^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Balb/c nude mice (18-20 g; 6-8 weeks old) with MES-SA cells ^[1]
Dosage:	2 mg/kg
Administration:	Intraperitoneally injected; for 3 weeks, except on weekends.
Result:	Inhibited cancer growth in vivo.

CUSTOMER VALIDATION

- J Cell Biol. 2023 May 1;222(5):e202201068.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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