

Product Name: SRT1720 HCI Revision Date: 01/10/2020



SRT1720 HCI

Cat. No.:	A4180
CAS No.:	1001645-58-4
Formula:	C25H23N7OS·HCI
M.Wt:	506.02
Synonyms:	SRT-1720,SRT 1720,SRT 1720 Hydrochloridd
Target:	Chromatin/Epigenetics
Pathway:	Sirtuin
Storage:	Store at -20°C

Solvent & Solubility

 \geq 25.3 mg/mL in DMSO,insoluble in EtOH, \geq 15.37 mg/mL in H2O with ultrasonic and warming

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HCI

		Mass			
	Drenering	Solvent	1mg	5mg	10mg
Preparing In Vitro Stock Solut		Concentration			
	Stock Solutions	1 mM	1.9762 mL	9.8810 mL	19.7621 mL
		5 mM	0.3952 mL	1.9762 mL	3.9524 mL
	.0.	10 mM	0.1976 mL	0.9881 mL	1.9762 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	SIRT1 activator	SIRT1 activator		
IC ₅₀ & Target	0.16 µM (EC50) (SIRT1)			
In Vitro	Cell Viability Assay	elo		
	Cell Line:	MDA-MB-231 cells		
	Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining		
		a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or		
		shake it in the ultrasonic bath for a while.Stock solution can be stored below		
		-20°C for several months.		
	Reacting conditions:	Below a concentration of 5 μ M, 24h		
	Applications:	SRT1720 is a SIRT1 activator. It increased the VEGF concentration by about		
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		30% relative to the control, suggesting that SRT1720 might promote the angiogenesis of tumors.
	Animal experiment	
In Vivo	Animal models:	BALB/c mice (5-week-old females) injected with 4T1 cells
	Dosage form:	From Day 2 before tumor implantation, SRT1720 (100 mg/kg body weight) was given to the mouse 5 times per week. The size of the tumors was measured on Days 4, 8, 12, 16 and 20. The primary tumor was removed on Day 21 and was weighed and frozen at -20°C. On Day 28, the mice were sacrificed and the lungs were intratracheally fixed with a Bouin's solution for 24 h.
	Applications:	SRT1720 did not substantially affect the size and weight of primary tumors, but dramatically increased lung metastasis by about 150%.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

1. Zurlo G, Piquereau J, et al."Sirtuin 1 regulates pulmonary artery smooth muscle cell proliferation: role in pulmonary arterial hypertension." J Hypertens. 2018 May;36(5):1164-1177.PMID:29369849

2. Cheng CY, Gutierrez NM, et al. "Host sirtuin 1 regulates mycobacterial immunopathogenesis and represents a therapeutic target against tuberculosis." Sci Immunol. 2017 Mar;2(9). pii: eaaj1789.PMID:28707004

3. Wang, Yi, et al. "Specific turn-on fluorescent probe with aggregation-induced emission characteristics for SIRT1 modulator screening and living-cell imaging." Analytical chemistry (2015).PMID:25903518

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References

[1] Suzuki K, Hayashi R, Ichikawa T, et al. SRT1720, a SIRT1 activator, promotes tumor cell migration, and lung metastasis of breast cancer in mice. Oncology reports, 2012, 27(6): 1726-1732.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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