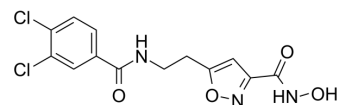


SS-208

Cat. No.:	HY-126330
CAS No.:	2245942-72-5
Molecular Formula:	C ₁₃ H ₁₁ Cl ₂ N ₃ O ₄
Molecular Weight:	344.15
Target:	HDAC
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Powder -20°C 3 years

* The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (363.21 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.9057 mL	14.5285 mL	29.0571 mL
		5 mM	0.5811 mL	2.9057 mL	5.8114 mL
	10 mM	0.2906 mL	1.4529 mL	2.9057 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.04 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.04 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.04 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	SS-208 is a selective HDAC6 inhibitor, with an IC ₅₀ of 12 nM. SS-208 possesses anti-tumor activity in melanoma ^[1] .			
IC ₅₀ & Target	HDAC6 12 nM (IC ₅₀)	HDAC8 1.23 μM (IC ₅₀)	HDAC1 1.39 μM (IC ₅₀)	HDAC11 5.12 μM (IC ₅₀)
	HDAC5 6.91 μM (IC ₅₀)	HDAC7 8.34 μM (IC ₅₀)		
In Vivo	SS-208 (25 mg/kg, ip) significantly reduces the tumor growth in melanoma murine model ^[1] .			

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

Animal Model:	C57BL/6 mice injected immunogenic murine SM1 melanoma cells subcutaneously ^[1] .
Dosage:	25 mg/kg.
Administration:	IP on day 4, 7, 12, 15 and 18.
Result:	Significantly reduced the tumor growth.

REFERENCES

[1]. Shen S, et al. Discovery of a New Isoxazole-3-hydroxamate-Based Histone Deacetylase 6 Inhibitor SS-208 with Antitumor Activity in Syngeneic Melanoma Mouse Models. J Med Chem. 2019 Sep 4.

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

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