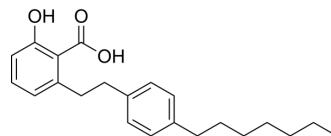


MG 149

Cat. No.:	HY-15887		
CAS No.:	1243583-85-8		
Molecular Formula:	C ₂₂ H ₂₈ O ₃		
Molecular Weight:	340.46		
Target:	Histone Acetyltransferase; Epigenetic Reader Domain; Apoptosis		
Pathway:	Epigenetics; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (293.72 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.9372 mL	14.6860 mL	29.3720 mL
5 mM	0.5874 mL	2.9372 mL	5.8744 mL
10 mM	0.2937 mL	1.4686 mL	2.9372 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.75 mg/mL (8.08 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.75 mg/mL (8.08 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

MG149 (Tip60 HAT inhibitor) is a selective and potent Tip60 inhibitor with IC₅₀ of 74 μM, similar potency for MOF (IC₅₀= 47 μM); little potent for PCAF and p300 (IC₅₀>200 μM)^[1].

IC₅₀ & Target

CBP/p300

TIP60

In Vitro

MG 149 (Tip60 HAT inhibitor), at 200 μM, inhibited about 90% of Tip60 activity but had no inhibitory impact on p300 and PCAF. MG 149 was essentially competitive with Ac-CoA and noncompetitive with the histone substrate. HAT inhibition studies with MG 149 demonstrated that both compounds inhibited the HAT activity of the nuclear extracts of different regions significantly (p < 0.05)^[1].

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

CUSTOMER VALIDATION

- Int J Biol Sci. 2024 Jan 12;20(3):968-986.
- Cell Death Dis. 2022 Aug 17;13(8):717.
- iScience. 2023 Nov 14.
- Front Cell Infect Microbiol. 19 July 2021.
- Int J Mol Sci. 2023 Mar 3.

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REFERENCES

[1]. Ghizzoni M, et al. 6-alkylsalicylates are selective Tip60 inhibitors and target the acetyl-CoA binding site. Eur J Med Chem. 2012 Jan;47(1):337-44.

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

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