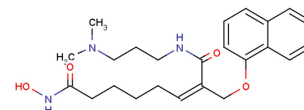


CG-200745

Chemical Properties

CAS No.:	936221-33-9
Formula:	C ₂₄ H ₃₃ N ₃ O ₄
Molecular Weight:	427.54
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	CG-200745 is a potent inhibitor of HDAC. CG200745 induces apoptosis and also inhibits the deacetylation of histone H3 and tubulin.
Targets(IC ₅₀)	HDAC: None
In vitro	CG200745 induces the accumulation of p53. It promotes p53-dependent transactivation, and it also enhances the expression of MDM2 and p21 (Waf1/Cip1) proteins [1,2]. CG-200745 (0-10 μ M; 48 hours) reduces the Calu6 cells proliferation to 40% of untreated cells. CG-200745 (0-10 μ M; 1-24 hours) treatment with low concentration significantly increases the acetylation of histone H3 and H4 in Calu6 cells at various sites in a time-dependent manner up to 24 hours after treatment. CG-200745 (3 μ M; 1-24 hours) significantly increases Calu6 cells proportion in the G2/M phase (69%) [3].
In vivo	CG-200745 (p.o.; 30 mg/kg/day; for 7 days) weaken inflammatory cytokines, adhesion molecules, oxidative stress in UUO kidneys [4].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.339 mL	11.695 mL	23.39 mL
5 mM	0.468 mL	2.339 mL	4.678 mL
10 mM	0.234 mL	1.169 mL	2.339 mL
50 mM	0.047 mL	0.234 mL	0.468 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Oh ET, et al. Novel histone deacetylase inhibitor CG200745 induces clonogenic cell death by modulating acetylation of p53 in cancer cells. Invest New Drugs. 2012 Apr;30(2):435-42.
2. Hwang JJ, et al. A novel histone deacetylase inhibitor, CG200745, potentiates anticancer effect of docetaxel in prostate cancer via decreasing Mcl-1 and Bcl-XL. Invest New Drugs. 2012 Aug;30(4):1434-42.
3. Chun SM, et al. Epigenetic modulation with HDAC inhibitor CG200745 induces anti-proliferation in non-small cell lung cancer cells. PLoS One. 2015 Mar 17;10(3):e0119379.
4. Choi HS, et al. Histone deacetylase inhibitor, CG200745 attenuates renal fibrosis in obstructive kidney disease. Sci Rep. 2018 Aug 1;8(1):11546.

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