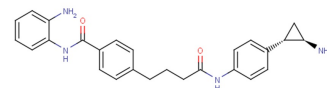


Data Sheet (Cat.No.T10864)

Corin

Chemical Properties

CAS No.:	1808113-09-8
Formula:	C ₂₆ H ₂₈ N ₄ O ₂
Molecular Weight:	428.53
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Corin is a dual inhibitor of histone lysine-specific demethylase (LSD1) and HDAC (Ki(inact): 110 nM for LSD1; IC50: 147 nM for HDAC1).
Targets(IC ₅₀)	HDAC1: 147 nM LSD1ki: 110 nM
In vitro	Corin is able to inhibit the deacetylation of semisynthetic, reconstituted nucleosomes by the CoREST ternary complex. Corin shows irreversible inhibition of HDAC1 activity. In Comparison to MS-275(EC50: 420 nM), Corin appears to more potently (EC50: 95 nM) and efficaciously induce cellular H3K9 acetylation. Corin (1 μM) is non-toxic to primary human melanocytes in contrast to MS-275 (1 μM).

Solubility Information

Solubility	DMSO: 100 mg/mL (233.36 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.334 mL	11.668 mL	23.336 mL
5 mM	0.467 mL	2.334 mL	4.667 mL
10 mM	0.233 mL	1.167 mL	2.334 mL
50 mM	0.047 mL	0.233 mL	0.467 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. Kalin JH, et al. Targeting the CoREST complex with dual histone deacetylase and demethylase inhibitors. Nat Commun. 2018 Jan 4;9(1):53.

Inhibitors · Natural Compounds · Compound Libraries

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