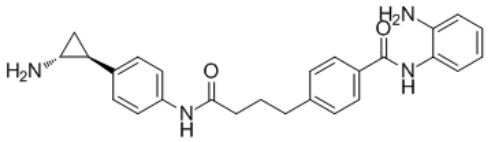
Product Data Sheet

Product Name: Corin
Cat. No.: GC34165

Chemical Properties

Cas. No.	1808113-09-8		
SMILES	O=C(NC1=CC=C([C@H]2[C@H](N)C2)C=C1)CCCC3=CC=C(C(NC4=CC=CC=C4N)=O)C=C3		
Formula	$C_{26}H_{28}N_4O_2$	M.Wt	428.53
Solubility	DMSO : 100 mg/mL (233.36 mM);Water : < 0.1 mg/mL (insoluble)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

Corin is a dual inhibitor of histone lysine specific demethylase (LSD1) and histone deacetylase (HDAC), with a Ki(inact) of 110 nM for LSD1 and an IC50 of 147 nM for HDAC1.

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,

corin appears to more potently (Corin EC50 95 nM vs. MS-275 EC50 420 nM) and efficaciously induce cellular H3K9 acetylation. Interestingly, Corin (1 μM) is non-toxic to primary human melanocytes in contrast to MS-275 (1 μM)[1].

[1]. Kalin JH, et al. Targeting the CoREST complex with dual histone deacetylase and demethylase inhibitors. Nat Commun. 2018 Jan 4;9(1):53.

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