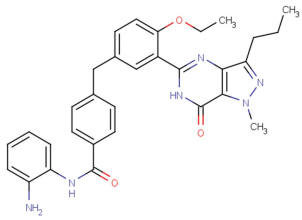
Data Sheet (Cat.No.T10841)

TargetMol
A DRUG SCREENING EXPERT

CM-675

Chemical Properties



CAS No.:	1872466-47-1
Formula:	C31H32N6O3
Molecular Weight:	536.62
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	CM-675 is a dual inhibitor of phosphodiesterase 5 (PDE5) and class I histone deacetylases (IC50s: 114 nM and 673 nM for PDE5 and HDAC1) with the potential to treat Alzheimer’ s disease.
Targets(IC_{50})	PDE5: 114 nM nM
In vitro	CM-675 (29a) exhibits a significant time-dependent effect on class I HDAC inhibition, particularly towards HDAC2. For HDAC1, its inhibitory potency also increased significantly (~1 log unit) with the pre-incubation time: 673 nM (30 min), 180 nM (4 hours), and 69 nM (6 hours).

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.864 mL	9.318 mL	18.635 mL
5 mM	0.373 mL	1.864 mL	3.727 mL
10 mM	0.186 mL	0.932 mL	1.864 mL
50 mM	0.037 mL	0.186 mL	0.373 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 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Rabal O, et al. Discovery of in Vivo Chemical Probes for Treating Alzheimer's Disease: Dual Phosphodiesterase 5 (PDE5) and Class I Histone Deacetylase Selective Inhibitors. ACS Chem Neurosci. 2019 Mar 20;10(3):1765-1782.

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