Data Sheet (Cat.No.T14217)

TargetMol®
YOUR TARGET MOLECULES

AMG 579

Chemical Properties

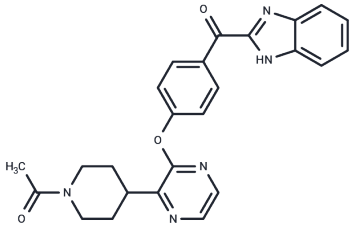
CAS No. : 1227067-61-9

Formula: C25H23N5O3

Molecular Weight: 441.48

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	AMG 579 is an efficacious and selective inhibitor of PDE10A (IC50 = 0.1 nM).
Targets(IC50)	PDE
In vivo	AMG 579 statistically reduces PCP-induced behavior in rats within 2 hours. In the PCP-LMA model, the minimum effective dose of AMG 579 was 0.3 mg/kg. AMG 579 has an excellent oral bioavailability of 72% in dogs[1].

Solubility Information

Solubility	DMSO: 37.8 mg/mL (85.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2651 mL	11.3255 mL	22.6511 mL
5 mM	0.453 mL	2.2651 mL	4.5302 mL
10 mM	0.2265 mL	1.1326 mL	2.2651 mL
50 mM	0.0453 mL	0.2265 mL	0.453 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Hu E,et al. Discovery of clinical candidate 1-(4-(3-(4-(1H-benzo[d]imidazole-2-carbonyl)phenoxy)pyrazin-2-yl) piperidin-1-yl)ethanone (AMG 579), a potent, selective, and efficacious inhibitor of phosphodiesterase 10A

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