

AMG 579

Chemical Properties

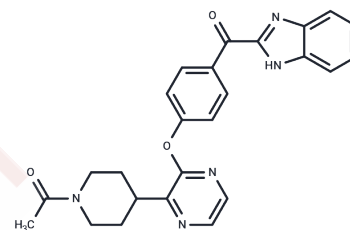
CAS No. : 1227067-61-9

Formula: C₂₅H₂₃N₅O₃

Molecular Weight: 441.48

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	AMG 579 is an efficacious and selective inhibitor of PDE10A (IC ₅₀ = 0.1 nM).
Targets(IC ₅₀)	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 (85.62 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.53 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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 (PDE10A). J Med Chem. 2014 Aug 14;57(15):6632-41.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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