

Product Data Sheet

Product Name: AMG 579

Cat. No.: GC31213

Chemical Properties

Cas. No. 1227067-61-9

SMILES CC(N1CCC(C2=NC=CN=C2OC3=CC=C(C(C4=NC5=CC=CC=C5N4)=O)C=C3)CC1)=O

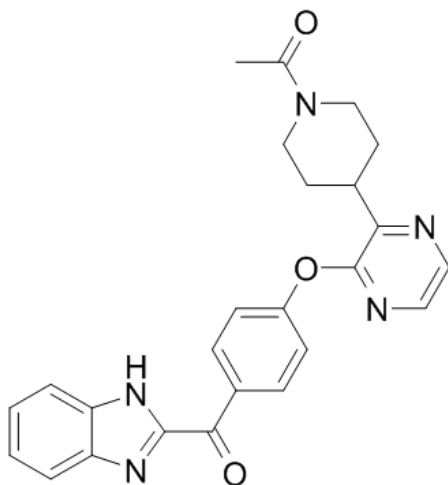
Formula $C_{25}H_{23}N_5O_3$ M.Wt 441.48

Solubility DMSO: 41.67 mg/mL (94.39 mM) 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



Protocol

Animal experiment: Rats[1] Adult male Sprague–Dawley rats (250–280 g) are dosed at 0.1, 0.3, 1, and 3 mg/kg PO 1 h prior to administration of PCP. The magnitude of rat locomotor activity is quantified as number of beam breaks over a 2 h period[1].

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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References:

[1]. 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.

Background

AMG 579 is a potent, selective, and efficacious inhibitor of phosphodiesterase 10A (PDE10A) with an IC₅₀ of 0.1 nM.

AMG 579 shows statistically significant reduction of PCP induced behavior in rats over the 2 h period. Minimum effective doses for efficacy in PCP-LMA model is determined to be 0.3 mg/kg for AMG 579. In dog, 5 exhibits superior oral bioavailability of 72%[1].

[1]. 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.

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