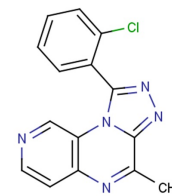


PDE2/PDE10-IN-1

Chemical Properties

CAS No.:	1426833-08-0
Formula:	C ₁₅ H ₁₀ ClN ₅
Molecular Weight:	295.73
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	PDE2/PDE10-IN-1 is a inhibitor of phosphodiesterase 2 (PDE2) and PDE10(IC50s of 29 and 480 nM, respectively).
Targets(IC ₅₀)	hPDE2A: 29 nM rPDE10A: 480 nM hPDE4D: 5890 nM hPDE11A: 6920 nM
In vitro	PDE2/PDE10-IN-1 inhibits PDE2 and PDE10(IC50 of 29 and 480 nM, respectively). PDE2/PDE10-IN-1 is also inactive up to a concentration of 125 µg/mL in a bacterial mutagenicity assay. PDE2/PDE10-IN-1 also inhibits PDE11A and PDE4D with IC50s of 6920 nM and 5890 nM, respectively. In addition PDE2/PDE10-IN-1 does not show significant inhibition of a panel of CYP450 enzymes (CYP1A2, 2C9, 2D6, 2C19, and 3A4).
In vivo	PDE2/PDE10-IN-1, which is orally bioavailable, occupies PDE2 with an ED50 of 21 mg/kg.

Solubility Information

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

	1mg	5mg	10mg
1 mM	3.381 mL	16.907 mL	33.815 mL
5 mM	0.676 mL	3.381 mL	6.763 mL
10 mM	0.338 mL	1.691 mL	3.381 mL
50 mM	0.068 mL	0.338 mL	0.676 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Rombouts FJ, et al. Pyrido[4,3-e][1,2,4]triazolo[4,3-a]pyrazines as Selective, Brain Penetrant Phosphodiesterase 2 (PDE2) Inhibitors. ACS Med Chem Lett. 2015 Jan 15;6(3):282-6.

Inhibitors · Natural Compounds · Compound Libraries

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