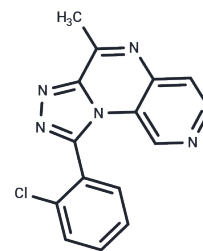


PDE2/PDE10-IN-1

Chemical Properties

CAS No. :	1426833-08-0
Formula:	C ₁₅ H ₁₀ ClN ₅
Molecular Weight:	295.73
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	PDE2/PDE10-IN-1 is an inhibitor of phosphodiesterase 2 (PDE2) and PDE10, with IC ₅₀ values of 29 nM and 480 nM, respectively.
Targets(IC ₅₀)	Others,PDE
In vitro	PDE2/PDE10-IN-1 inhibits PDE2 and PDE10(IC ₅₀ 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 IC ₅₀ s 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 ED ₅₀ of 21 mg/kg.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3815 mL	16.9073 mL	33.8146 mL
5 mM	0.6763 mL	3.3815 mL	6.7629 mL
10 mM	0.3381 mL	1.6907 mL	3.3815 mL
50 mM	0.0676 mL	0.3381 mL	0.6763 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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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