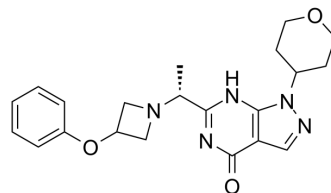


PF-04449613

Cat. No.:	HY-12788		
CAS No.:	1236858-52-8		
Molecular Formula:	C ₂₁ H ₂₅ N ₅ O ₃		
Molecular Weight:	395.45		
Target:	Phosphodiesterase (PDE)		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (252.88 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5288 mL	12.6438 mL	25.2876 mL
	5 mM	0.5058 mL	2.5288 mL	5.0575 mL
	10 mM	0.2529 mL	1.2644 mL	2.5288 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

PF-04449613 is a selective PDE9A inhibitor with an IC₅₀ of 22 nM[1]. PF-04449613 improved motor learning ability in a mouse model[2].

IC₅₀ & Target

PDE9A
22 nM (IC₅₀)

REFERENCES

[1]. Claffey MM, et al. Application of structure-based drug design and parallel chemistry to identify selective, brain penetrant, in vivo active phosphodiesterase 9A inhibitors. J Med Chem. 2012 Nov 8;55(21):9055-68.

[2]. Lai B, et al. The Phosphodiesterase 9 Inhibitor PF-04449613 Promotes Dendritic Spine Formation and Performance Improvement after Motor Learning. Dev Neurobiol. 2018 Sep;78(9):859-872.

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

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