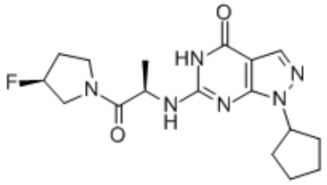
PDE9-IN-1

Cat. No.:	HY-126137
CAS No.:	2305087-92-5
Molecular Formula:	$C_{17}H_{23}FN_6O_2$
Molecular Weight:	362.4
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	PDE9-IN-1 is a potent, selective, and orally bioavailable **phosphodiesterase-9A (PDE9A)** Inhibitor with an **IC_{50}** of 8.7 nM[1].
IC_{50} & Target	PDE9A 8.7 nM (IC_{50})
In Vitro	PDE9-IN-1 is excellent selectivity across PDE families[1].
In Vivo	PDE9-IN-1 (2.5 and 5.0 mg/kg; Oral administration; daily for 21 days) effectively recovers learning and memory function[1].

Animal Model:	Unilateral common carotid artery occlusion (UCCAO) mouse model[1]
Dosage:	2.5 and 5.0 mg/kg
Administration:	Oral administration; daily for 21 days
Result:	Significantly reduced the day 6 escape latency time and increased the frequency of platform area crossings, and recovered learning and memory function. High dose group possibly improved the escape latency time of mice.

REFERENCES

[1]. Wu Y, et al. Discovery of Potent, Selective, and Orally Bioavailable Inhibitors against Phosphodiesterase-9, a Novel Target for the Treatment of Vascular Dementia. J Med Chem. 2019 Apr 25;62(8):4218-4224.

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