(S)-C33

Cat. No.: HY-124775

CAS No.: 2066488-39-7

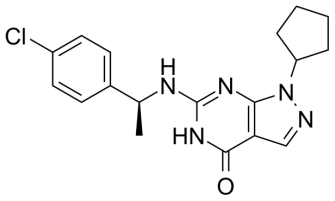
Molecular Formula: $C_{18}H_{20}ClN_5O$

Molecular Weight: 357.84

Target: Phosphodiesterase (PDE)

Pathway: Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (279.45 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7945 mL	13.9727 mL	27.9454 mL
	5 mM	0.5589 mL	2.7945 mL	5.5891 mL
	10 mM	0.2795 mL	1.3973 mL	2.7945 mL

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

BIOLOGICAL ACTIVITY

Description

(S)-C33 is a potent and selective PDE9 (phosphodiesterase-9) inhibitor, with an IC_{50} of 11 nM. (S)-C33 can be used for central nervous system diseases and diabetes research[1].

IC_{50} & Target

PDE9A 11 ± 4 nM (IC_{50})	PDE5A1 366 ± 38 nM (IC_{50})	PDE1B 554 ± 64 nM (IC_{50})	PDE4D2 1.3 ± 0.1 μM (IC_{50})
PDE10A1 2.3 ± 0.3 μM (IC_{50})	PDE2A 2.4 ± 0.5 μM (IC_{50})		

REFERENCES

[1]. Huang M, Shao Y, Hou J, et al. Structural Asymmetry of Phosphodiesterase-9A and a Unique Pocket for Selective Binding of a Potent Enantiomeric Inhibitor. Mol Pharmacol. 2015;88(5):836-845.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA