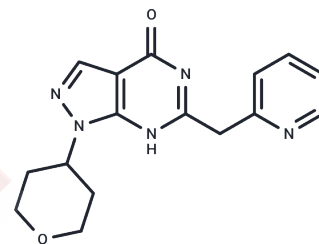


Osoresnontrine

Chemical Properties

CAS No. :	1189767-28-9
Formula:	C16H17N5O2
Molecular Weight:	311.34
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	Osoresnontrine is a potent and selective inhibitor of PDE9A (IC50 of 52 nM), and can be used in the research of memory.
Targets(IC50)	PDE

Solubility Information

Solubility	DMSO: 22 mg/mL (70.66 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.42 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2119 mL	16.0596 mL	32.1192 mL
5 mM	0.6424 mL	3.2119 mL	6.4238 mL
10 mM	0.3212 mL	1.606 mL	3.2119 mL
50 mM	0.0642 mL	0.3212 mL	0.6424 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

Cornelia Dorner-Ciossek, R. Giovannini, Holger Rosenbrock. BI 409306, A NOVEL PHOSPHODIESTERASE 9A INHIBITOR, PART I: POTENCY, SELECTIVITY AND IN-VITRO FUNCTIONAL CHARACTERIZATION ON SYNAPTIC PLASTICITY [C]// International Congress on Schizophrenia Research. 2015.

Moschetti V , Kim M , Sand M , et al. The safety, tolerability and pharmacokinetics of BI 409306, a novel and potent PDE9 inhibitor: Overview of three Phase I randomised trials in healthy volunteers[J]. European Neuropsychopharmacology, 2018:S0924977X18300233.

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