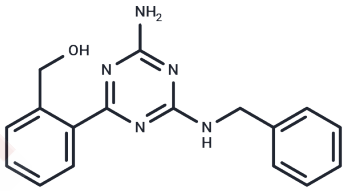
Data Sheet (Cat.No.T16378)

TargetMol

Ogerin

Chemical Properties



CAS No. : 1309198-71-7

Formula: C17H17N5O

Molecular Weight: 307.35

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	Ogerin is a selective GPR68 positive allosteric modulator (pEC50: 6.83) that blocks recall in fear conditioning in mice. It exhibits inverse agonist and antagonist activity (Ki, 220 nM) at the A2A receptor and weak antagonist activity (Ki, 736 nM) at the 5-HT2B receptor.
Targets(IC50)	5-HT Receptor,Adenosine Receptor,GPCR

Solubility Information

Solubility	DMSO: 160 mg/mL (520.58 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (32.54 mM),Suspension. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (16.27 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2536 mL	16.2681 mL	32.5362 mL
5 mM	0.6507 mL	3.2536 mL	6.5072 mL
10 mM	0.3254 mL	1.6268 mL	3.2536 mL
50 mM	0.0651 mL	0.3254 mL	0.6507 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

Huang XP, et al. Allosteric ligands for the pharmacologically dark receptors GPR68 and GPR65. Nature. 2015 Nov 26;527(7579):477-83.