

NIBR189

Chemical Properties

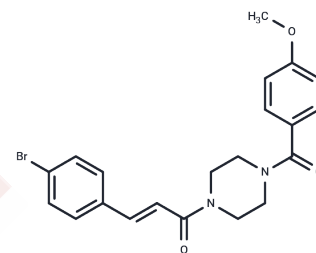
CAS No. : 1599432-08-2

Formula: C₂₁H₂₁BrN₂O₃

Molecular Weight: 429.31

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	NIBR189 is a potent and selective antagonist of EB12 (GPR183) receptor (IC ₅₀ of 11 and 15 nM for human and mouse EB12 receptors, respectively)
Targets(IC ₅₀)	EB12/GPR183,Antifection
In vitro	NIBR189 is selective for EB12 over a panel of other receptors, enzymes, and transporters. NIBR189 blocks the oxysterol-induced migration of U937 monocytic cells.

Solubility Information

Solubility	DMSO: 47 mg/mL (109.48 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (4.66 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	2.3293 mL	11.6466 mL	23.2932 mL
5 mM	0.4659 mL	2.3293 mL	4.6586 mL
10 mM	0.2329 mL	1.1647 mL	2.3293 mL
50 mM	0.0466 mL	0.2329 mL	0.4659 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

Gessier F , Preuss I , Yin H , et al. Identification and Characterization of Small Molecule Modulators of the Epstein-Barr Virus-Induced Gene 2 (EBI2) Receptor[J]. Journal of Medicinal Chemistry, 2014, 57(8):3358-3368.

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