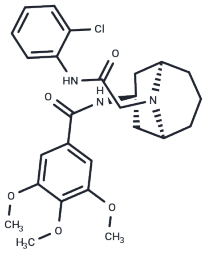
Data Sheet (Cat.No.T9721)

TargetMol

ML339

Chemical Properties



CAS No. : 2579689-83-9

Formula: C26H32ClN3O5

Molecular Weight: 502

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	ML339 a selective inhibitor of CXCR6(IC50 = 140 nM) with no response when screened against CXCR5 and CXCR4.
Targets(IC50)	Apelin receptor,Arrestin,CXCR
In vitro	The murine assay was validated using anti-mCXCR16 as an antagonist positive control tested in the presence of an EC80 concentration of mCXCL16 (IC50 = 1.5 nM; % response = 100%). Probe ML339 was shown to be 100-fold less active at the murine CXCR6 receptor using the DiscoveRx β-arrestin cell-based assay format[1].

Solubility Information

Solubility	DMSO: 125 mg/mL (249 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 4 mg/mL (7.97 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	1.992 mL	9.9602 mL	19.9203 mL
5 mM	0.3984 mL	1.992 mL	3.9841 mL
10 mM	0.1992 mL	0.996 mL	1.992 mL
50 mM	0.0398 mL	0.1992 mL	0.3984 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

Paul M. Hershberger, et al. Probing the CXCR6/CXCL16 Axis: Targeting Prevention of Prostate Cancer Metastasis.