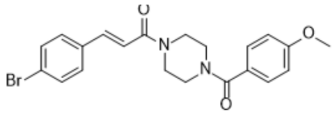
NIBR189

Cat. No.:	HY-12336
CAS No.:	1599432-08-2
Molecular Formula:	$C_{21}H_{21}BrN_2O_3$
Molecular Weight:	429.31
Target:	EBI2/GPR183; EBV
Pathway:	GPCR/G Protein; Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (116.47 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (5.82 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.82 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

NIBR189 is an EBI2 (Epstein-Barr virus-induced gene 2) antagonist. NIBR189 inhibits human and mouse EBI2 with IC_{50}s of 11 and 16 nM, respectively. NIBR189 can be used for the research of autoimmune diseases[1].

In Vitro

NIBR189 (0-1 μM; 3 h) blocks migration of U937 cells[1].
NIBR189 (0-10 μM) blocks oxysterol-dependent activation with an IC_{50} value of 9 nM[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Migration Assay [1]

Cell Line:	U937 cell lines

Concentration:	0-1 μM
Incubation Time:	3 hours
Result:	Blocked the direct migration of U937 cells with an IC_{50} value of 0.3 nM.

In Vivo

Pharmacokinetic Properties of NIBR189 in Mice[1].

	Mice IV 1 mg/kg	Mice PO 3 mg/kg
CL (μL/min/mg)	16	
$t_{1/2}$ (h)	1.1	
V_{ss} (L/kg)	1.4	
AUC (nmol·h/L)	2435	3608
C_{max} (nmol/L)		835
t_{max} (h)		1
F (%)		49

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Microb Pathog. 2020 Aug;145:104234.

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REFERENCES

[1]. Gessier F, et al. Identification and characterization of small molecule modulators of the Epstein-Barr virus-induced gene 2 (EBI2) receptor. J Med Chem. 2014 Apr 24;57(8):3358-68.

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