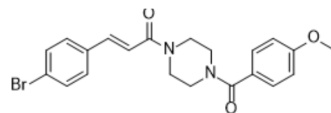


## NIBR189

Cat. No.:	HY-12336		
CAS No.:	1599432-08-2		
Molecular Formula:	C <sub>21</sub> H <sub>21</sub> BrN <sub>2</sub> O <sub>3</sub>		
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)

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

- 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
- 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<sub>50</sub>s of 11 and 16 nM, respectively. NIBR189 can be used for the research of autoimmune diseases<sup>[1]</sup>.

#### In Vitro

NIBR189 (0-1 μM; 3 h) blocks migration of U937 cells<sup>[1]</sup>.  
 NIBR189 (0-10 μM) blocks oxysterol-dependent activation with an IC<sub>50</sub> value of 9 nM<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.  
 Cell Migration Assay <sup>[1]</sup>

Cell Line:	U937 cell lines
------------	-----------------

Concentration:	0-1 $\mu$ M
Incubation Time:	3 hours
Result:	Blocked the direct migration of U937 cells with an IC <sub>50</sub> value of 0.3 nM.

## In Vivo

Pharmacokinetic Properties of NIBR189 in Mice<sup>[1]</sup>.

	Mice IV 1 mg/kg	Mice PO 3 mg/kg
CL ( $\mu$ L/min/mg)	16	
t <sub>1/2</sub> (h)	1.1	
V <sub>ss</sub> (L/kg)	1.4	
AUC (nmol·h/L)	2435	3608
C <sub>max</sub> (nmol/L)		835
t <sub>max</sub> (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.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## 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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA