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Zuschläge

- Mindermengenzuschlag
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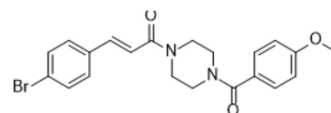
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NIBR189

Cat. No.:	HY-12336		
CAS No.:	1599432-08-2		
Molecular Formula:	C ₂₁ H ₂₁ BrN ₂ O 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 Concentration	Mass	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 IC₅₀ 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 μ M
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 (μ L/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.

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

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