PCI-33380

Cat. No.:	HY-100335		
CAS No.:	1022899-36	-0	
Molecular Formula:	C ₄₆ H ₅₂ BF ₂ N ₁	10 ₃	
Molecular Weight:	855.78		
Target:	Btk		
Pathway:	Protein Tyre	osine Kin	ase/RTK
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

®

MedChemExpress

SOLVENT & SOLUBILITY

In Vitro	0, 1	DMSO : ≥ 50 mg/mL (58.43 mM) * "≥" means soluble, but saturation unknown.					
		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.1685 mL	5.8426 mL	11.6852 mL		
		5 mM	0.2337 mL	1.1685 mL	2.3370 mL		
		10 mM	0.1169 mL	0.5843 mL	1.1685 mL		
	Please refer to the sol	ubility information to select the ap	propriate solvent.				
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (2.92 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.92 mM); Clear solution						

BIOLOGICAL ACTIV	
Description	PCI-33380 is an irreversible and selective Bruton's Tyrosine Kinase (BTK) inhibitor (fluorescent probe).
IC ₅₀ & Target	BTK ^{[1][2]} .
In Vitro	PCI-33380 bound to Btk could be detected by denaturing gel electrophoresis and fluorescent gel scanning ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Immunofluorescence ^[2]

F F HN

Cell Line:	Human B cells.
Concentration:	2 μΜ.
Incubation Time:	1 h.
Result:	Found that 10 nM of PCI-32765 was sufficient to fully occupy the active site of Btk in primary B cells in culture by using the fluorescently tagged derivative PCI-33380.

REFERENCES

[1]. Zuo Y, et al. A novel 2,5-diaminopyrimidine-based affinity probe for Bruton's tyrosine kinase. Sci Rep. 2015 Nov 4;5:16136.

[2]. Honigberg LA, et al. The Bruton tyrosine kinase inhibitor PCI-32765 blocks B-cell activation and is efficacious in models of autoimmune disease and B-cell malignancy. Proc Natl Acad Sci U S A. 2010 Jul 20;107(29):13075-80.

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

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