## AZ13705339 hemihydrate

Cat. No.:	HY-120940A				
Molecular Formula:	C <sub>33</sub> H <sub>36</sub> FN <sub>7</sub> O <sub>3</sub> S. <sub>1</sub> / <sub>2</sub> H <sub>2</sub> O				
Molecular Weight:	638.77				
Target:	РАК				
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton				
Storage:	Powder In solvent	-20°C -80°C -20°C	3 years 6 months 1 month		

## SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (156.55 mM; Need ultrasonic)

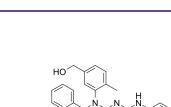
Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.5655 mL	7.8275 mL	15.6551 m
	5 mM	0.3131 mL	1.5655 mL	3.1310 ml
	10 mM	0.1566 mL	0.7828 mL	1.5655 ml

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

<b>BIOLOGICAL ACTIV</b>	ИТҮ					
Description	AZ13705339 hemihydrate is a highly potent and selective PAK1 inhibitor with IC <sub>50</sub> s of 0.33 nM and 59 nM for PAK1 and pPAK1, respectively. AZ13705339 hemihydrate has binding affinities to PAK1 and PAK2, with K <sub>d</sub> s of 0.28 nM and 0.32 nM, respectively. AZ13705339 hemihydrate can be used in the research of cancers <sup>[1]</sup> .					
IC₅₀ & Target	PAK2 0.32 nM (Kd)	PAK1 0.28 nM (Kd)	PAK1 0.33 nM (IC <sub>50</sub> )	pPAK1 59 nM (IC <sub>50</sub> )		
In Vitro	AZ13705339 (1 μM) hemihydrate inhibits αlgM-controlled adhesion and not PMA-induced adhesion in Namalwa cells <sup>[2]</sup> . AZ13705339 (300 nM, 30 min) prevents Siglec-8 engagement-induced eosinophil death <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.					
In Vivo	AZ13705339 hemihydrate (100 mg/kg, P.O.) has moderate clearance and oral C <sub>max</sub> of 7.7 μM in rats <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.					

## REFERENCES

www.MedChemExpress.com



**Product** Data Sheet

1/2 H<sub>2</sub>O

[1]. McCoull W, et al. Optimization of Highly Kinase Selective Bis-anilino Pyrimidine PAK1 Inhibitors. ACS Med Chem Lett. 2016;7(12):1118-1123. Published 2016 Sep 14.

[2]. Martin F M de Rooij, et al. A loss-of-adhesion CRISPR-Cas9 screening platform to identify cell adhesion-regulatory proteins and signaling pathways. Nat Commun. 2022 Apr 19;13(1):2136.

[3]. Daniela J Carroll, et al. Siglec-8 Signals Through a Non-Canonical Pathway to Cause Human Eosinophil Death In Vitro. Front Immunol. 2021 Oct 11;12:737988.

## 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