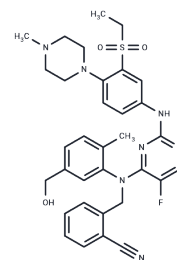


AZ13705339

## Chemical Properties

CAS No. : 2016806-57-6  
 Formula: C33H36FN7O3S  
 Molecular Weight: 629.75  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	AZ13705339 is an effective inhibitor of PAK1 with an IC50 of 0.33 nM and a Kd of 0.28 nM. AZ13705339 binds PAK2 with a Kd of 0.32 nM. AZ13705339 can be used in studies about cancers.
Targets(IC50)	PAK
In vitro	AZ13705339 (300 nM) prevents Siglec-8 binding-induced eosinophil death[2]. In Namalwa cells, AZ13705339 (1 μM) inhibits αGM-controlled but not PMA-induced adhesion[3].
In vivo	In rats, AZ13705339 (100 mg/kg, p.o.) exhibits moderate clearance and Cmax of 7.7 μM [1].

## Solubility Information

Solubility	DMSO: 225 mg/mL (357.28 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5879 mL	7.9397 mL	15.8793 mL
5 mM	0.3176 mL	1.5879 mL	3.1759 mL
10 mM	0.1588 mL	0.794 mL	1.5879 mL
50 mM	0.0318 mL	0.1588 mL	0.3176 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

McCoull W, et al. Optimization of Highly Kinase Selective Bis-anilino Pyrimidine PAK1 Inhibitors. ACS Med Chem Lett. 2016 Sep 14;7(12):1118-1123. eCollection 2016 Dec 8.

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.

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.

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