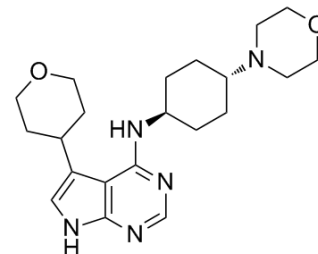


AZ1495

Cat. No.:	HY-111101		
CAS No.:	2196204-23-4		
Molecular Formula:	C ₂₁ H ₃₁ N ₅ O ₂		
Molecular Weight:	385.5		
Target:	IRAK		
Pathway:	Immunology/Inflammation; Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



Solvent & Solubility

In Vitro	DMSO : 10 mg/mL (25.94 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.5940 mL	12.9702 mL	25.9403 mL
		5 mM		0.5188 mL	2.5940 mL	5.1881 mL
		10 mM		0.2594 mL	1.2970 mL	2.5940 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: ≥ 1 mg/mL (2.59 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (2.59 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (2.59 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	AZ1495 (compound 28) is an oral active inhibitor of Interleukin-1 receptor associated kinase 4 (IRAK4), with IC ₅₀ values of 5 nM and 23 nM for IRAK4 and IRAK1, respectively. Shows activity in treatment of mutant MYD88 ^{L265P} diffuse large B-cell lymphoma (DLBCL) ^[1] .			
IC ₅₀ & Target	IRAK4 5 nM (IC ₅₀)	IRAK1 23 nM (IC ₅₀)	CLK1 50 nM (IC ₅₀)	CLK2 5 nM (IC ₅₀)

CLK4 8 nM (IC ₅₀)	haspin 4 nM (IC ₅₀)
----------------------------------	------------------------------------

REFERENCES

[1]. Scott JS, et al. Discovery and Optimization of Pyrrolopyrimidine Inhibitors of Interleukin-1 Receptor Associated Kinase 4 (IRAK4) for the Treatment of Mutant MYD88L265P Diffuse Large B-Cell Lymphoma. *J Med Chem.* 2017 Dec 28;60(24):10071-10091.

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