

Product Name: CHZ868 Revision Date: 01/10/2020

Product Data Sheet

CHZ868

Cat. No.: B5980

CAS No.: 1895895-38-1 Formula: C22H19F2N5O2

M.Wt: 423.42

Synonyms:

Target: Chromatin/Epigenetics

Pathway: JAK

Storage: Store at -20° C



Soluble in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.3617 mL	11.8086 mL	23.6172 mL
	5 mM	0.4723 mL	2.3617 mL	4.7234 mL
-10	10 mM	0.2362 mL	1.1809 mL	2.3617 mL

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

Biological Activity

Shortsummary	Type II JAK2 inhibitor			
IC ₅₀ & Target				
In Vitro	Cell Viability Assay	E Contraction		
	Cell Line:	CRLF2-rearranged human B-ALL cells MHH-CALL4, JAK2V617F SET2 cells,		
	Expore the	MPLW515L mutant cells		
	Preparation method:	Soluble in DMSO. General tips for obtaining a higher concentration: Please		
		warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for		
		a while. Stock solution can be stored below -20°C for several months.		
	Reacting conditions:	0.25-1 μM		
	Applications:	In CRLF2-rearranged human B-ALL cells MHH-CALL4, CHZ868 potently		

		inhibited JAK2 phosphorylation and cell growth. In JAK2V617F SET2 cells,	
		CHZ868 (0.25-1 µM) potently inhibited constitutive JAK2 and STAT5	
		phosphorylation, and inhibited cell proliferation with GI50 of 59 nM. In	
		MPLW515L mutant cells, CHZ868 potently inhibited cell proliferation and	
		abrogated phosphorylation of Y1007/Y1008 in the JAK2 activation loop. In type	
	O Organi	I JAK inhibitor-persistent cells, CHZ868 dose-dependently inhibited JAK2	
	Expose hie Jun	phosphorylation and proliferation of JAK2V617F or MPLW515L cells.	
Animal experiment		La constante de la constante d	
	Animal models:	Jak2V617F conditional knock-in mice	
	Dosage form:	30-40 mg/kg orally once daily	
	Applications:	CHZ868 normalized spleen and liver weights, demonstrating marked inhibition	
		of extramedullary hematopoiesis. CHZ868 therapy reduced the bone marrow	
		megakaryocytic hyperplasia. In a murine model of PMF-like disease, CHZ868	
In Vivo		(40 mg/kg) therapy significantly improved survival of mice with	
		MPLW515L-induced myelofibrosis and dose-dependently reduced	
		hepatomegaly and normalized spleen weight and size. CHZ868 therapy	
	Ton Expose the	markedly decreased bone marrow and spleen reticulin fibrosis.	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may	
		slightly differ with the theoretical value. This is caused by an experimental	
		system error and it is normal.	

Product Citations

1. Tvorogov D, Thomas D, et al. "Accumulation of JAK activation loop phosphorylation is linked to type IJAK inhibitor withdrawal syndrome in myelofibrosis." Sci Adv. 2018 Nov28;4(11):eaat3834.PMID:30498775

See more customer validations on www.apexbt.com.

References

[1]. Meyer S C, Keller M D, Chiu S, et al. CHZ868, a type II JAK2 inhibitor, reverses type I JAK inhibitor persistence and demonstrates efficacy in myeloproliferative neoplasms[J]. Cancer cell, 2015, 28(1): 15-28.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com



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