

Product Name: Cerdulatinib (PRT062070) Revision Date: 01/10/2021



NH.

Cerdulatinib (PRT062070)

Cat. No.:	B8023		
CAS No.:	1198300-79-6		
Formula:	C20H27N7O3S		
M.Wt:	445.54		
Synonyms:			
Target:	Chromatin/Epigenetics		
Pathway:	JAK		
Storage:	Desiccate at -20°C		
	010		

Solvent & Solubility

	≥22.3 mg/mL in DM	\geq 22.3 mg/mL in DMSO; insoluble in H2O; insoluble in EtOH			
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
	Stock Solutions	1 mM	2.2445 mL	11.2223 mL	22.4447 mL
	el0	5 mM	0.4489 mL	2.2445 mL	4.4889 mL
	PELL	10 mM	0.2244 mL	1.1222 mL	2.2445 mL

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

Biological Activity

Shortsummary

Syk/JAK inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay	and the second se
Cell Line:	DLBCL (diffuse large B-cell lymphoma) cells: germinal center B-cell (GCB)
	subtype, activated B-cell (ABC) subtype.
Preparation method:	Limited solubility. General tips for obtaining a higher concentration: Please
	warm the tube at 37 $^\circ\mathrm{C}$ 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:	6 h

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	Applications:	Cerdulatinib induces apoptosis in both GCB and ABC cell lines by caspase 3		
		and PARP cleavage. Cerdulatinib also triggers apoptosis and cell cycle arrest		
		in BCR-stimulated DLBCL cells. Cerdulatinib blocks JAK/STAT and BCR		
		signaling in both ABC and GCB cell lines as well.		
	Animal experiment			
In Vivo	Animal models:	Female Lewis rats collagen-induced arthritis (CIA) model		
	Dosage form:	Oral gavage twice daily.		
	Applications:	3 mg/kg of Cerdulatinib suppresses the inflammation and reverses relative to		
		pretreatment levels at 5 mg/kg. Cerdulatinib also dose-dependently leads to		
		significant improvements in inflammatory infiltrate within the synovium and the		
		integrity of the articular cartilage. Moreover, Cerdulatinib treatment affects		
		anticollagen antibody formation and reduces 50% of circulating antibody titers		
		at the 1.5, 3, and 5 mg/kg doses.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
	BIO	slightly differ with the theoretical value. This is caused by an experimental		
	PErsonal	system error and it is normal.		
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Product Citations

See more customer validations on www.apexbt.com.

References



APEBIC

1. Ma J, Xing W, Coffey G et al. Cerdulatinib, a novel dual SYK/JAK kinase inhibitor, has broad anti-tumor activity in both ABC and GCB types of diffuse large B cell lymphoma. Oncotarget. 2015 Nov 5.

2. Coffey G, Betz A, DeGuzman F et al. The novel kinase inhibitor PRT062070 (Cerdulatinib)demonstrates efficacy in models of autoimmunity and B-cell cancer. J Pharmacol Exp Ther. 2014 Dec;351(3):538-48.

Caution

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NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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