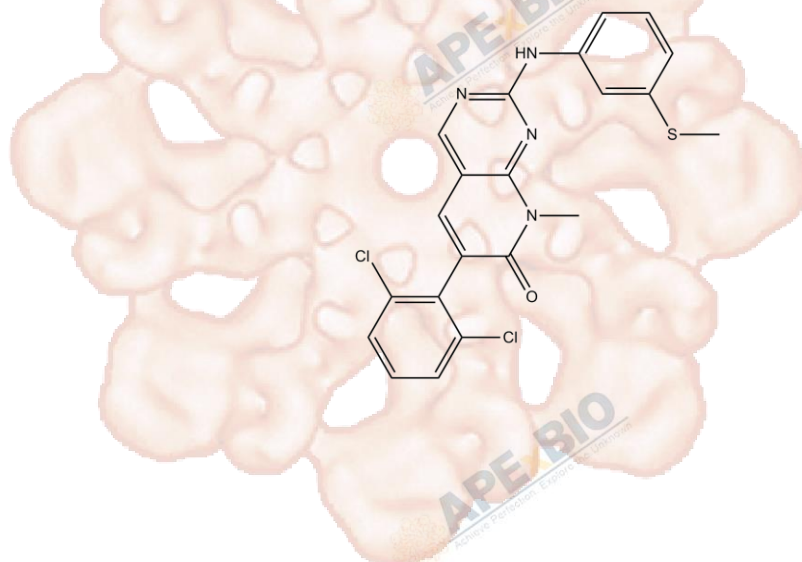


Product Data Sheet

PD173955

Cat. No.:	A8812
CAS No.:	260415-63-2
Formula:	C ₂₁ H ₁₆ Cl ₂ N ₄ O ₅
M.Wt:	443.35
Synonyms:	
Target:	TGF-β / Smad Signaling
Pathway:	Bcr-Abl
Storage:	Store at -20°C



Solvent & Solubility

≥22.15 mg/mL in DMSO with gentle warming

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.2556 mL	11.2778 mL	22.5555 mL
	5 mM	0.4511 mL	2.2556 mL	4.5111 mL
	10 mM	0.2256 mL	1.1278 mL	2.2556 mL

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

Biological Activity

Shortsummary

Dual Src/Abl kinase inhibitor, ATP-competitive,

IC₅₀ & Target

1-2 nM (Bcr-Abl), 22 nM (Src)

In Vitro

Cell Viability Assay

Cell Line:	Bcr-Abl-positive cell lines K562 and RWLeu4
Preparation method:	This compound in DMSO is limited. 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:	10 and 35 nM; 3 days

	Applications:	In the Bcr-Abl-positive erythroleukemia cell line K562 and the Bcr-Abl-positive myelomonocytic cell line RWLeu4, PD173955 inhibited cell proliferation with the IC50 values of 35 and 10 nM, respectively. At the low nanomolar, PD173955 arrested cell cycle in G1 phase.
In Vivo	Animal experiment	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Wisniewski, D., et al., Characterization of potent inhibitors of the Bcr-Abl and the c-kit receptor tyrosine kinases. Cancer Res, 2002. 62(15): p. 4244-55.

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.

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