

Product Name: THZ1 Hydrochloride Revision Date: 01/10/2021

Product Data Sheet

THZ1 Hydrochloride

Cat. No.: B4736

CAS No.: 1604810-83-4 (free base)

Formula: C31H29Cl2N7O2

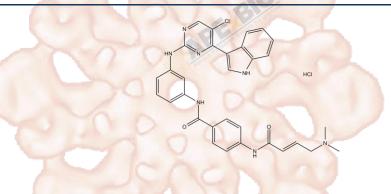
M.Wt: 602.51

Synonyms:

Target: Cell Cycle/Checkpoint

Pathway: Cyclin-Dependent Kinases

Storage: Store at -20°C



Solvent & Solubility

≥30.13 mg/mL in DMSO; insoluble in H2O; insoluble in EtOH

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	1.6597 mL	8.2986 mL	16.5972 mL
	5 mM	0.3319 mL	1.6597 mL	3.3194 mL
	10 mM	0.1660 mL	0.8299 mL	1.6597 mL

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

Biological Activity

CDK7 inhihitor

Shortsummary	CDR7 IIIIIbiloi	
IC ₅₀ & Target		
In Vitro	Cell Viability Assay	
	Cell Line:	Jurkat and Loucy T-ALL cell lines
	Preparation method:	The solubility of this compound in DMSO is >10 mM. 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:	72 hoursIC50: 50 nM (for Jurkat cells), 0.55 nM (for Loucy T-ALL cells)
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	Applications: As a CDK7 inhibitor, THZ1 potently inhibited proliferation of Jurkat ar			
		T-ALL cell lines with IC50 values of 50 nM and 0.55 nM, respectively.		
	Animal experiment			
In Vivo	Animal models:	Mice bearing KOPTK1 xenografts		
	Dosage form:	10 mg/kg, twice daily for 29 days		
	Applications:	THZ1 exhibited efficacy in a bioluminescent xenografted mouse model using		
	PERCOST	the human T-ALL cell-line KOPTK1 when dosed twice daily at 10mg/kg.		
	Action 2 of the	THZ1waswell tolerated at these doseswith no observable body weight loss or		
	· 역원(명)	behavioural changes, suggesting that it caused no overt toxicity in the animals.		
	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

See more customer validations on www.apexbt.com.

References

[1] Kwiatkowski N, Zhang T, Rahl P B, et al. Targeting transcription regulation in cancer with a covalent CDK7 inhibitor. Nature, 2014, 511(7511): 616-620.

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

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