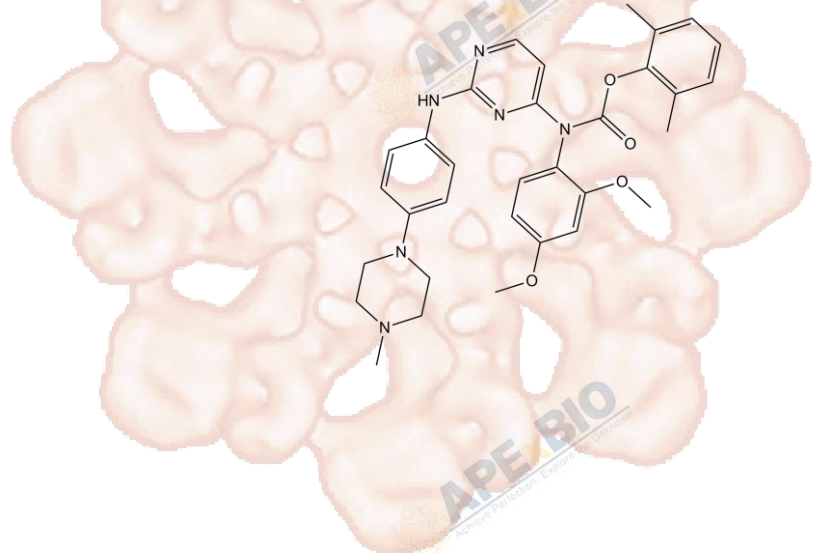


Product Data Sheet

WH-4-023

Cat. No.:	B8003
CAS No.:	837422-57-8
Formula:	C32H36N6O4
M.Wt:	568.67
Synonyms:	
Target:	Tyrosine Kinase
Pathway:	Src
Storage:	Desiccate at -20°C



Solvent & Solubility

≥56.9 mg/mL in DMSO; insoluble in H₂O; ≥2.42 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	1.7585 mL	8.7924 mL	17.5849 mL
	5 mM	0.3517 mL	1.7585 mL	3.5170 mL
	10 mM	0.1758 mL	0.8792 mL	1.7585 mL

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

Biological Activity

Shortsummary

Lck/Src inhibitor,potent and selective

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	Naive human pluripotent cells
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:	1 μM

	Applications:	WH-4-023 is a potent and selective Src and Lck inhibitor with IC50 values of 6 and 2 nM, respectively[1]. Naive human pluripotent cells were maintained in media containing WH-4-023. WH-4-023 improves the fraction of viable GFP+ cells. Withdrawal of the WH-4-023 results in a change in morphology and slight decrease of OCT4-DPE-GFP reporter activity[2].
In Vivo	Animal experiment	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

- [1]. Martin M W, Newcomb J, Nunes J J, et al. Novel 2-aminopyrimidine carbamates as potent and orally active inhibitors of Lck: synthesis, SAR, and in vivo antiinflammatory activity[J]. Journal of medicinal chemistry, 2006, 49(16): 4981.
- [2]. Theunissen T W, Powell B E, Wang H, et al. Systematic Identification of Defined Conditions for Induction and Maintenance of Naive Human Pluripotency[J]. Cell stem cell, 2014, 15(4): 471.

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. Short-term 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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