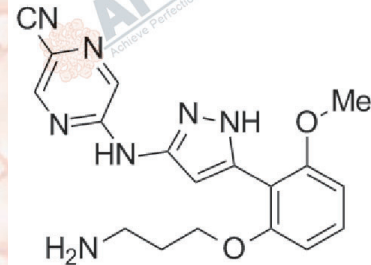


Product Data Sheet

LY2606368

Cat. No.:	B1088
CAS No.:	1234015-52-1
Formula:	C18H19N7O2
M.Wt:	365.39
Synonyms:	
Target:	Cell Cycle/Checkpoint
Pathway:	Chk
Storage:	Store at -20°C



Solvent & Solubility

insoluble in DMSO

In Vitro

Preparing	Solvent	Mass		
		1mg	5mg	10mg
Stock Solutions	Concentration			
	1 mM	2.7368 mL	13.6840 mL	27.3680 mL
	5 mM	0.5474 mL	2.7368 mL	5.4736 mL
	10 mM	0.2737 mL	1.3684 mL	2.7368 mL

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

Biological Activity

Shortsummary

CHK1 inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	Hela cells
Preparation method:	Limited solubility. 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:	7 h
Applications:	LY2606368 triggers DNA damage during S-phase as pH2AX (S139) and TUNEL-positive staining cells increases substantially in Sphase cells.

LY2606368 also need CDC25A and CDK2 to trigger DNA damage. In addition, LY2606368 leads to replication catastrophe.

Animal experiment

Animal models: Female CD-1 nu-/nu- mice (26–28 g) bearing Calu-6 tumor

Dosage form: Twice daily for 3 days with 1, 3.3, or 10 mg/kg of LY2606368

Applications: Up to 72.3% tumor growth inhibition is observed in all three doses of LY2606368 groups. Wight loss of mice is not exceeded by 3%, indicating the LY2606368 is well tolerated in any of the treatment groups. Moreover, tumor regrowth of the highest dose group is slow during the 28-day recovery period, suggesting a durable response to LY2606368.

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.

In Vivo

Product Citations

See more customer validations on www.apexbt.com.

References

1. King C, Diaz HB, McNeely S et al. LY2606368 Causes Replication Catastrophe and Antitumor Effects through CHK1-Dependent Mechanisms. Mol Cancer Ther. 2015 Sep;14(9):2004-13.

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 APEX BIO 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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