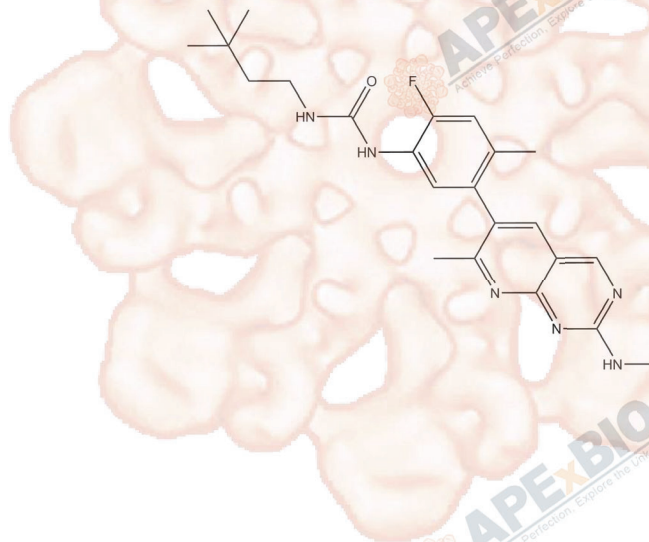


Product Data Sheet

LY3009120

Cat. No.:	A8716
CAS No.:	1454682-72-4
Formula:	C ₂₃ H ₂₉ FN ₆ O
M.Wt:	424.51
Synonyms:	
Target:	MAPK Signaling
Pathway:	Raf
Storage:	Store at -20°C



Solvent & Solubility

≥4.25mg/mL in DMSO with ultrasonic and warming

In Vitro	Preparing Stock Solutions	Mass			
		Solvent Concentration	1mg	5mg	10mg
		1 mM	2.3557 mL	11.7783 mL	23.5566 mL
		5 mM	0.4711 mL	2.3557 mL	4.7113 mL
		10 mM	0.2356 mL	1.1778 mL	2.3557 mL

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

Biological Activity

Shortsummary	pan-RAF and RAF dimer inhibitor	
IC ₅₀ & Target		
In Vitro	Cell Viability Assay	
	Cell Line:	A375 cells and HCT116 cells
	Preparation method:	This compound is soluble in DMSO. 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:	0.5 μM, 24, 72 h
	Applications:	LY3009120 suppresses the proliferation of melanoma cells with either BRAF or

	NRAS mutation. It also induces cell cycle G0/G1 arrest and apoptosis in tumor cells with RAS or BRAF mutation.	
In Vivo	Animal experiment	
	Animal models:	Female NIH nude rats bearing xenograft tumors
	Dosage form:	Oral administration, 5, 10, or 15 mg/kg, twice daily
	Applications:	Treatment of rat bearing melanoma BRAF V600E A375 xenograft tumors by 5, 10, or 15 mg/kg, twice daily of LY3009120, induced tumor growth inhibition and regression in a dose-dependent manner.
	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

1. White SM, Avantaggiati ML, et al. "YAP/TAZ Inhibition Induces Metabolic and Signaling Rewiring Resulting in Targetable Vulnerabilities in NF2-Deficient Tumor Cells." Dev Cell. 2019 May 6;49(3):425-443.e9.PMID:31063758

See more customer validations on www.apexbt.com.

References

[1]. Peng S B, Henry J R, Kaufman M D, et al. Inhibition of RAF isoforms and active dimers by LY3009120 leads to anti-tumor activities in RAS or BRAF mutant cancers[J]. Cancer Cell, 2015, 28(3): 384-398.

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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