

Product Name: PLX-4720 Revision Date: 01/10/2021

Product Data Sheet

PLX-4720

Cat. No.: A3016

CAS No.: 918505-84-7

Formula: C17H14CIF2N3O3S

M.Wt: 413.83

Synonyms: PLX4720, PLX-4720, PLX 4720

Target: MAPK Signaling

Pathway: Raf

Storage: Store at 4°C

CI O F HN S

Solvent & Solubility

≥20.69 mg/mL in DMSO; insoluble in EtOH; insoluble in H2O

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.4165 mL	12.0823 mL	24.1645 mL
	5 mM	0.4833 mL	2.4165 mL	4.8329 mL
	10 mM	0.2416 mL	1.2082 mL	2.4165 mL

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

Biological Activity

Reacting conditions:

Shortsummary	BRAF kinase inhibitor		
IC ₅₀ & Target	13 nM (B-RafV600E), 6.7 nM (c-Raf-1Y340D/Y341D)		
	Cell Viability Assay		
	Cell Line:	WM793 cells	
	Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining	
In Vitro		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.	

0.5 µM, 96 hours

	Applications:	Viable cells were identified following 96 h incubation with PLX-4720. Cell		
		viability was further evaluated after re-plating onto non-fibrillar collagen gels, in		
		the continued presence of the drug. Viable cells were identified in ~63% of		
		PLX-4720 treated cultures. These data indicate that melanoma cells harboring		
		a BRAFV600E mutation can survive despite reductions in BRAF activation of		
	310	the MEK-ERK signaling cascade.		
	Animal experiment			
In Vivo	Animal models:	Athymic nude mice injected with melanoma A375 cells		
	Dosage form:	Intraperitoneal injection, 25–50mg/kg daily		
	Applications:	PLX-4720 decreased tumor growth as single therapy. When combined with the		
		CRM1 inhibitor KPT-276 (75 mg/kg every day), the two inhibitors induced		
		complete tumor regression per RECIST criteria. The difference between both		
		single therapy and the combination therapy was statistically significant. The		
		effect on apoptosis was believed to be the greatest contribution of the		
	BIO	combination since it was significantly increased by the drug combination.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
	Action to total	slightly differ with the theoretical value. This is caused by an experimental		
		system error and it is normal.		

Product Citations

1. Sieber J, Wieder N, et al. "GDC-0879, a BRAF(V600E) Inhibitor, Protects Kidney Podocytes fromDeath." Cell Chem Biol. 2017 Dec 6.PMID:29249695

See more customer validations on www.apexbt.com.

References

- [1] Klein R M, Higgins P J. A switch in RND3-RHOA signaling is critical for melanoma cell invasion following mutant-BRAF inhibition. Mol Cancer, 2011, 10: 114.
- [2] Fragomeni R A S, Chung H W, Landesman Y, et al. CRM1 and BRAF inhibition synergize and induce tumor regression in BRAF-mutant melanoma. Molecular cancer therapeutics, 2013, 12(7): 1171-1179.

Caution

FOR RESEARCH PURPOSES ONLY.

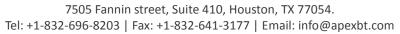
NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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



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