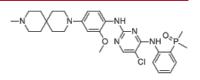


WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name :	Iruplinalkib
Cat. No. :	PC-73422
CAS No. :	1854943-32-0
Molecular Formula :	C ₂₉ H ₃₈ CIN ₆ O ₂ P
Molecular Weight :	569.087
Target :	Anaplastic Lymphoma Kinase (ALK)
Solubility :	10 mM in DMSO



Biological Activity

Iruplinalkib (WX-0593) is a potent **ALK** inhibitor, inhibits the activity of both wild type (IC50=5.38 nM) and resistant mutants of ALK (ALKL1196M IC50=9.26 nM) in vitro, and overcomes crizotinib-resistant mutations.

WX-0593 displayed potent enzymatic activities for ALKWT, ALKL 1196M, ALK C1156Y and EGFR L858R/T790M with IC50 of 5.38, 9.26, 9.28, and 16.74 nM respectively.

WX-0593 also showed expected anti-proliferative activity in six cell lines, Karpas-299, Ba/F3, Ba/F3 (EML4-ALK-WT), Ba/F3 (EML4-ALK-L1196M), Ba/F3 (EML4-ALK-C1156Y), and NCI-H1975, with IC50 of 4.5, 2208, 4, 9.5, 9, and 508 nM, respectively. WX-0593 could fully inhibit p-ALK, p-ERK,p-STAT5 at 11.1 nM and p-AKT at 100 nM in NCI-H3122 cells.

WX-0593 can inhibit the activity of both wide type and crizotinib resistant ALK and showed strong antitumor activity in in vitro and in vivo preclinical models.

References

Liu X, et al. Bioorg Med Chem Lett. 2022 Apr 11;66:128730.

Shi Y, et al. Signal Transduct Target Ther. 2022 Jan 28;7(1):25.

Liu Xile, et al. Cancer Research 78(13 Supplement):4794-4794.

Caution: Product has not been fully validated for medical applications. Lab Use Only! E-mail: tech@probechem.com