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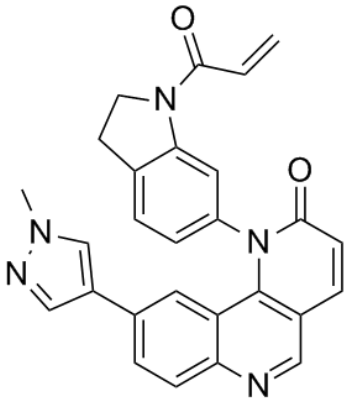
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	QL-47
Cat. No.	:	PC-46006
CAS No.	:	1469988-75-7
Molecular Formula	:	$C_{27}H_{21}N_5O_2$
Molecular Weight	:	447.4879
Target	:	BTK
Solubility	:	DMSO: < 9.4 mg/mL



Biological Activity

QL-47 is a potent, selective, and irreversible **BTK** inhibitor with IC50 of 7 nM.
QL-47 inhibits BTK kinase activity with an IC50 of 7 nM, inhibits autophosphorylation of BTK on Tyr223 in cells with an EC50 of 475 nM, and inhibits phosphorylation of a downstream effector PLCγ2 (Tyr759) with an EC50 of 318 nM.
QL-47 induces a G1 cell cycle arrest that is associated with pronounced degradation of BTK protein in Ramos cells.
QL-47 inhibits the proliferation of B-cell lymphoma cancer cell lines at submicromolar concentrations.

References

Wu H, et al. ACS Chem Biol. 2014 May 16;9(5):1086-91.

Liang Y, et al. ACS Med Chem Lett. 2017 Feb 3;8(3):344-349.

Wang B, et al. Eur J Med Chem. 2017 Sep 8;137:545-557.

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