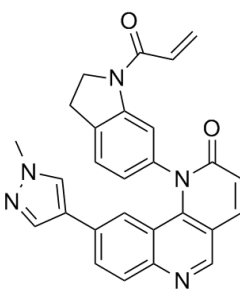


Product Name	: QL-47
Synonyms	: QL47; QL 47; QL47. QL-XI-47
Cat No.	: M12013
CAS Number	: 1469988-75-7
Molecular Formula	: C27H21N5O2
Formula Weight	: 447.49
Chemical Name	: Benzo[h]-1,6-naphthyridin-2(1H)-one, 1-[2,3-dihydro-1-(1-oxo-2-propen-1-yl)-1H-indol-6-yl]-9-(1-methyl-1H-pyrazol-4-yl)-
Description	 A potent, selective, and irreversible BTK inhibitor with IC₅₀ of 7 nM; 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; induces a G1 cell cycle arrest that is associated with pronounced degradation of BTK protein in Ramos cells; inhibits the proliferation of B-cell lymphoma cancer cell lines at submicromolar concentrations. Blood Cancer Preclinical
Pathway	: Tyrosine Kinase
Target	: BTK
Receptor	: BTK
Solubility	: DMSO: < 9.4 mg/mL
SMILES	: <chem>O=C1N(C2=CC3=C(C=C2)CCN3C(C=C)O)C4=C(C=NC5=CC=C(C6=CN(C)N=C6)C=C54)C=C1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Wu H, et al. ACS Chem Biol. 2014 May 16;9(5):1086-91. | 2. Liang Y, et al. ACS Med Chem Lett. 2017 Feb 3;8(3):344-349. | 3. Wang B, et al. Eur J Med Chem. 2017 Sep 8;137:545-557.