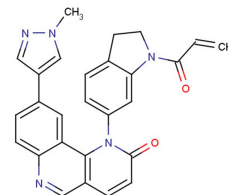


QL47

**Chemical Properties**

CAS No.:	1469988-75-7
Formula:	C <sub>27</sub> H <sub>21</sub> N <sub>5</sub> O <sub>2</sub>
Molecular Weight:	447.49
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	QL47 is an effective, selective, and irreversible BTK kinase inhibitor (IC <sub>50</sub> : 7 nM).
Targets(IC <sub>50</sub> )	Others: None
In vitro	QL47 inhibits the proliferation of B-cell lymphoma cancer cell lines at submicromolar concentrations. QL47 inhibits autophosphorylation of BTK on Tyr223 in cells (EC <sub>50</sub> : 475 nM) and inhibits phosphorylation of a downstream effector PLCγ2 (Tyr759) (EC <sub>50</sub> : 318 nM). QL47 causes a G1 cell cycle arrest which is associated with pronounced degradation of BTK protein in Ramos cells[1].

**Solubility Information**

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.235 mL	11.173 mL	22.347 mL
5 mM	0.447 mL	2.235 mL	4.469 mL
10 mM	0.223 mL	1.117 mL	2.235 mL
50 mM	0.045 mL	0.223 mL	0.447 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Wu, H., et al., Discovery of a Potent, Covalent BTK Inhibitor for B-Cell Lymphoma. ACS Chem Biol, 2014.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481