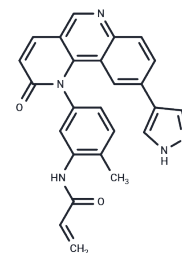


QL-X-138

## Chemical Properties

CAS No. : 1469988-63-3  
 Formula: C<sub>25</sub>H<sub>19</sub>N<sub>5</sub>O<sub>2</sub>  
 Molecular Weight: 421.45  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	QL-X-138 is a potent and selective BTK and MNK dual kinase inhibitor that binds covalently to BTK and non-covalently to MNK. The IC <sub>50</sub> values of QL-X-138 are 9.4 nM for BTK, 107.4 nM for MNK1, 26 nM for MNK2, and 3.5 μM against Dengue 2. QL-X-138 is used in the study of B-cell malignancies and B-cell malignant tumors.
Targets(IC <sub>50</sub> )	Anti-infection, MNK, BTK, Virus Protease
In vitro	<p>QL-X-138 (0.5-5 μM; 24-72 h) arrests the progression of Ramos, OCI-AML-3, U937, and U2932 cells cycle in a dose-dependent manner[1].</p> <p>QL-X-138 (0.5-5 μM; 8-72 h) induces apoptosis of Ramos, OCI-AML-3, U937 and U2932 cells in a time- and dose-dependent manner.[1]</p> <p>QL-X-138 (3-10000 nM; 4 h) blocks BTK- and MNK-mediated signaling in lymphoma and leukemia cells.[1]</p> <p>QL-X-138 (72 h) demonstrates anti-proliferative activity against lymphoma and leukemia cell lines, with GI<sub>50</sub> values of 0.31, 1.2, 0.49, 1.4, 0.4, 0.23, 0.95, 1.2, 1.4, 0.23, 1.3, 0.93, 1, and 2.4 μM for TMD8, U2932, Ramos, OCI-AML3, SKM-1, NOMO-1, NB4, HEL, U937, NALM6, MEC-1, MEC-2, Hs 505.T, and REC-1 cells, respectively.[1]</p>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3728 mL	11.8638 mL	23.7276 mL
5 mM	0.4746 mL	2.3728 mL	4.7455 mL
10 mM	0.2373 mL	1.1864 mL	2.3728 mL
50 mM	0.0475 mL	0.2373 mL	0.4746 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wu H, et, al. Discovery of a BTK/MNK dual inhibitor for lymphoma and leukemia. Leukemia. 2016 Jan;30(1):173-81.  
Wispelaere M, et, al. Discovery of host-targeted covalent inhibitors of dengue virus. Antiviral Res. 2017 Mar;139: 171-179.

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