

QL-X-138 HCl

Chemical Properties

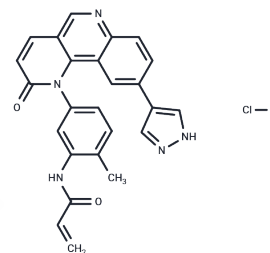
CAS No. :

Formula: C₂₅H₂₀ClN₅O₂

Molecular Weight: 457.91

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 HCl is a novel selective and highly potent BTK/MNK dual-kinase inhibitor with anticancer activity that binds covalently to BTK and noncovalently to MNK. QL-X-138 HCl inhibited BTK, MNK1, and MNK2 kinases. QL-X-138 HCl has anti-dengue virus 2 activity and shows anti-proliferative activity in acute myeloid leukemia cells. QL-X-138 HCl can be used to study lymphoma and leukemia.
Targets(IC50)	MNK,BTK
In vitro	In Ramos, OCI-AML3, U2932, TMD8, and U937 cells, QL-X-138 HCl(3-10000 nM; 4 hours) significantly inhibited the auto-phosphorylation of BTK Y223 (EC50=11 nM).QL-X-138 HCl strongly blocked the phosphorylation of the BTK downstream target PLCγ2 Y1217 (EC50=57 nM) and suppressed the phosphorylation of the MNK downstream target eIF4E S209 at a concentration of 1 μM[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1838 mL	10.9192 mL	21.8384 mL
5 mM	0.4368 mL	2.1838 mL	4.3677 mL
10 mM	0.2184 mL	1.0919 mL	2.1838 mL
50 mM	0.0437 mL	0.2184 mL	0.4368 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481