

Product Data Sheet

Product Name: QL-X-138

Cat. No.: GC70565

Chemical Properties

Cas. No. 1469988-63-3

Formula $C_{25}H_{19}N_5O_2$ M.Wt 421.45

Solubility DMSO : 25 mg/mL (59.32 mM);
ultrasonic and warming and heat to
80°C; Hygroscopic DMSO has a
significant impact on the solubility of
product, please use newly opened
DMSO)

Storage -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

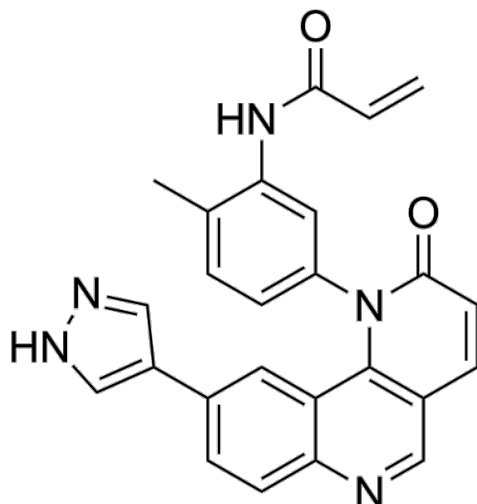
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

QL-X-138 is a potent and selective BTK/MNK dual kinase inhibitor, exhibits covalent binding to BTK and non-covalent binding to MNK. QL-X-138 shows IC₅₀s of 9.4 nM, 107.4 nM and 26 nM for BTK, MNK1 and MNK2 kinases respectively. QL-X-138 also shows anti-dengue virus 2 activity, with an IC₅₀ of 3.5 μ M. QL-X-138 can be used for the research of B-cell malignancies.

QL-X-138 (72 h) exhibits anti-proliferation activity against lymphoma and leukemia cell lines, with an GI₅₀s 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 μ M 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].

QL-X-138 (0.5-5 μ M; 24-72 h) arrests the progression of Ramos, OCI-AML-3, U937 and U2932 cells cycle in a dose dependent manner^[1].

QL-X-138 (0.5-5 μ M; 8-72 h) induces apoptosis of Ramos, OCI-AML-3, U937 and U2932 cells in a time- and dose-dependent manner^[1].

QL-X-138 (3-10000 nM; 4 h) blocks BTK- and MNK-mediated signaling in lymphoma and leukemia cell^[1].

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