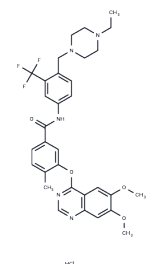


TL02-59 dihydrochloride

Chemical Properties

CAS No. :	2415263-06-6
Formula:	C32H36Cl2F3N5O4
Molecular Weight:	682.56
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	TL02-59 dihydrochloride is an orally active inhibitor of the Src-family kinase Fgr, with an IC50 of 0.03 nM.
Targets(IC50)	Apoptosis,Src
In vitro	in TF-1 cells, TL02-59 dihydrochloride (0.1-1000 nM; 6 hours) potently inhibits Fgr autophosphorylation, with partial inhibition at 0.1-1 nM and complete inhibition above 10 nM. Hck, Lyn and Flt3 are inhibited in the 100 to 1000 nM range. TL02-59 dihydrochloride induces growth arrest in primary AML bone marrow samples. TL02-59 dihydrochloride inhibits the growth and induced apoptosis of AML cell lines expressing this kinase with single-digit nM potency.
In vivo	TL02-59 (oral; 1 and 10 mg/kg; for three weeks) entirely eliminates AML cells from the spleen and peripheral blood in a mouse model of AML, while significantly suppressing bone marrow involvement.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4651 mL	7.3254 mL	14.6507 mL
5 mM	0.293 mL	1.4651 mL	2.9301 mL
10 mM	0.1465 mL	0.7325 mL	1.4651 mL
50 mM	0.0293 mL	0.1465 mL	0.293 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

Weir MC, et al. Selective Inhibition of the Myeloid Src-Family Kinase Fgr Potently Suppresses AML Cell Growth in Vitro and in Vivo. ACS Chem Biol. 2018 Jun 15;13(6):1551-1559.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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