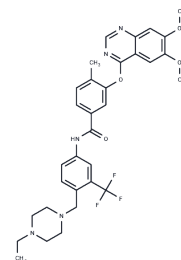


TL02-59

Chemical Properties

CAS No. : 1315330-17-6
 Formula: C32H34F3N5O4
 Molecular Weight: 609.64
 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 is a selective inhibitor of Fgr in Src-family kinase (IC50 = 0.03 nM). TL02-59 inhibits Lyn and Hck with IC50s of 0.1 nM and 160 nM, respectively. TL02-59 potently suppresses acute myelogenous leukemia cell growth.
Targets(IC50)	Apoptosis,Hck,Src
In vitro	TL02-59 inhibits the growth and induced apoptosis of AML cell lines expressing this kinase with single-digit nM potency. TL02-59 induces growth arrest in primary AML bone marrow samples. In TF-1 myeloid cells, TL02-59 (0.1, 1, 10, 100, 1000 nM; 6 h) potently inhibits Fgr autophosphorylation in TF-1 cells, 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[1].
In vivo	In mice, TL02-59 (1, 10 mg/kg; oral) completely eliminates AML cells from the spleen and peripheral blood while dramatically suppressing bone marrow involvement. TL02-59 has a t1/2 of 5.7 h by i.v and 6.5 h by p.o., respectively[1].

Solubility Information

Solubility	DMSO: 35.71 mg/mL (58.58 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 3.57 mg/mL (5.86 mM),Suspension. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (6.56 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6403 mL	8.2016 mL	16.4031 mL
5 mM	0.3281 mL	1.6403 mL	3.2806 mL
10 mM	0.164 mL	0.8202 mL	1.6403 mL
50 mM	0.0328 mL	0.164 mL	0.3281 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

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

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