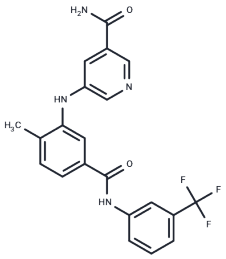
Data Sheet (Cat.No.T67736)

TargetMol

ALW-II-49-7

Chemical Properties



CAS No. : 1135219-23-6

Formula: C21H17F3N4O2

Molecular Weight: 414.38

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	ALW-II-49-7 is a selective and potent inhibitor of EphB2 kinase, with an EC50 value of 40 nM in cell.
Targets(IC50)	Ephrin Receptor
In vitro	ALW-II-49-7 (0.01-10 μ M; 1 h) inhibits the activity of EphB2 kinase in U87 glioblastoma cells at a concentration of 2 μ g/mL[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (603.31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (24.13 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (24.13 mM),Solution. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4132 mL	12.0662 mL	24.1324 mL
5 mM	0.4826 mL	2.4132 mL	4.8265 mL
10 mM	0.2413 mL	1.2066 mL	2.4132 mL
50 mM	0.0483 mL	0.2413 mL	0.4826 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

Choi Y, et al. Discovery and structural analysis of Eph receptor tyrosine kinase inhibitors. Bioorg Med Chem Lett. 2009 Aug 1;19(15):4467-70.