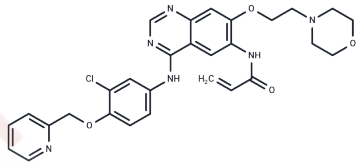
Data Sheet (Cat.No.T9072)

TargetMol

Tuxobertinib

Chemical Properties



CAS No. : 2414572-47-5

Formula: C29H29ClN6O4

Molecular Weight: 561.03

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	Tuxobertinib (BDTX-189) is a potent and selective inhibitor of allosteric EGFR and HER2 oncogenic mutations, with KDs of 0.2, 0.76, 13, and 1.2 nM for EGFR, HER2, BLK, and RIPK2, respectively, and exhibits anticancer activity.
Targets(IC50)	EGFR,HER,BTK,RIP kinase
In vivo	BDTX-189 (0-100 mg/kg;?p.o.;?daily for 15 dyas) shows dose-dependent tumor growth inhibition and regression in in athymic nude mice bearing HER2 S310F Ba/F3 allograft tumors.?BDTX-189 (1-50 mg/kg.p.o.;?daily for 15 days) shows dose-dependent tumor growth inhibition and regression in athymic nude mice bearing CUTO-14 PDX tumors that express the EGFR mutation EGFR ASV

Solubility Information

Solubility	DMSO: 41.67 mg/mL (74.27 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7824 mL	8.9122 mL	17.8244 mL
5 mM	0.3565 mL	1.7824 mL	3.5649 mL
10 mM	0.1782 mL	0.8912 mL	1.7824 mL
50 mM	0.0356 mL	0.1782 mL	0.3565 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

Elizabeth Buck, et al. BDTX-189, a Potent and Selective Inhibitor of Allosteric EGFR and HER2 Oncogenic Mutations.

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