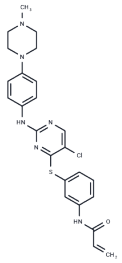
Data Sheet (Cat.No.T6734)

TargetMol

WZ8040

Chemical Properties



CAS No. : 1214265-57-2

Formula: C24H25ClN6OS

Molecular Weight: 481.01

Storage: Store at low temperature
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	WZ8040 is a novel mutant-selective irreversible EGFRT790M inhibitor, does not inhibit ERBB2 phosphorylation (T798I).
Targets(IC50)	EGFR
In vitro	WZ8040 is 30- to 100-fold more potent against EGFR T790M, and up to 100-fold less potent against wild-type EGFR, than quinazoline-based EGFR inhibitors such as CL-387785 and HKI-272. WZ8040 treatment potently inhibits the growth of HCC827 (EGFR Del E746_A750), PC9 (EGFR Del E746_A750), H3255 (EGFR L858R), H1975 (EGFR L858R/T790M), and PC9 GR (EGFR Del E746_A750/T790M) with IC50 of 1 nM, 6 nM, 66 nM, 9 nM, and 8 nM, respectively. WZ8040 weakly inhibits the growth of HCC827 GR (EGFR E746_A750/MET amp), H1819 (ERBB2 amp), Calu-3 (ERBB2 amp), H1781 (ERBB2 Ins G776V, C), and HN11 (EGFR & ERBB2 WT) with IC50 of >3.3 μM, 738 nM, 915 nM, 744 nM, and 1.82 μM, respectively. WZ8040 is not toxic up to 10 μM against A549 (KRAS mutant) or H3122 (EML4-ALK) cells. [1]
Cell Research	Cells are exposed to increasing concentrations of WZ8040 for 72 hours. Growth is assessed using the MTS survival assay.(Only for Reference)

Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 3 mg/mL (6.24 mM),Sonication is recommended. DMSO: 13.89 mg/mL (28.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 1.39 mg/mL (2.89 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1.39 mg/mL (2.89 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	2.079 mL	10.3948 mL	20.7896 mL
5 mM	0.4158 mL	2.079 mL	4.1579 mL
10 mM	0.2079 mL	1.0395 mL	2.079 mL
50 mM	0.0416 mL	0.2079 mL	0.4158 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

Zhou W, et al. Nature, 2009, 462(7276), 1070-1074.