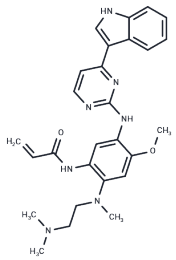
Data Sheet (Cat.No.T2491)

TargetMol

AZ-5104

Chemical Properties



CAS No. : 1421373-98-9

Formula: C27H31N7O2

Molecular Weight: 485.58

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	AZ5104 is a potent EGFR inhibitor.
Targets(IC50)	EGFR
In vitro	AZ5104 shows great potency against ex19del (2 nM in PC-9), T790M (2 nM in H1975), and wild-type EGFR (33 nM in LOVO) cell lines. AZ5104 causes inhibition of cell viability with IC50 of 3.3 nM, 2.6 nM, 80 nM, and 53 nM for H1975 (T790M/L858R), PC-9 (ex19del), Calu 3 (WT), and NCI-H2073 (WT), respectively. [1]
In vivo	In both C/L858R and C/L+T mice, AZ5104 (5 mg/kg/d, p.o.) induces significant and sustained tumor regression. [1]
Kinase Assay	Recombinant Kinase assays: Kinase assays are performed using peptide or protein substrates in a filter-binding radioactive ATP transferase assay for protein kinases, or lipid substrates and HTRF assay for lipid kinase.

Solubility Information

Solubility	Ethanol: 16 mg/mL (32.95 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 90 mg/mL (185.35 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0594 mL	10.297 mL	20.5939 mL
5 mM	0.4119 mL	2.0594 mL	4.1188 mL
10 mM	0.2059 mL	1.0297 mL	2.0594 mL
50 mM	0.0412 mL	0.2059 mL	0.4119 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.

Reference

Cross DA, et al. Cancer Discov. 2014, 4(9), 1046-1061.