

CNX-2006

Chemical Properties

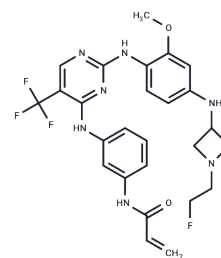
CAS No. : 1375465-09-0

Formula: C₂₆H₂₇F₄N₇O₂

Molecular Weight: 545.53

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	CNX-2006 is a novel irreversible mutant-selective EGFR inhibitor with IC ₅₀ of < 20 nM, with very weak inhibition at wild-type EGFR.
Targets(IC ₅₀)	EGFR
In vitro	CNX-2006 is a novel irreversible EGFR tyrosine kinase inhibitor, specifically inhibits activating mutations of EGFR as well as the T790M mutation while having very weak inhibition at wild-type EGFR. In in vitro modeling of acquired resistance, continuous CNX-2006 treatment on drug-sensitive EGFR mutant cells leads to resistance more slowly than erlotinib. Dose escalation with CNX-2006 leads to differential effects in different lines, but does not select for T790M-mediated resistance. [1]CNX-2006 resistant cells shows increased expression of EMT markers and MMP9.[2]
In vivo	CNX-2006 is effective in H1975 (EGFR L858R/T790M) xenograft model. [1] [2]
Kinase Assay	Growth inhibition assays: Human EGFR mutant lung adenocarcinoma cell lines are treated with drugs in standard growth inhibition assays.
Cell Research	Cells with endogenous or transiently transfected mutant EGFRs (293 cells) are treated with inhibitors for 6 hours and then corresponding lysates are extracted and analyzed by immunoblotting.(Only for Reference)
Animal Research	Animal Models: Nude mice Formulation: 5% DMSO:15% Solutol HS15 in PBS Dosages: 25 mg/kg Administration: i.p.

Solubility Information

Solubility	DMF: soluble, DMSO: 91 mg/mL (166.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8331 mL	9.1654 mL	18.3308 mL
5 mM	0.3666 mL	1.8331 mL	3.6662 mL
10 mM	0.1833 mL	0.9165 mL	1.8331 mL
50 mM	0.0367 mL	0.1833 mL	0.3666 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

Ohashi K, et al. 2013

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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