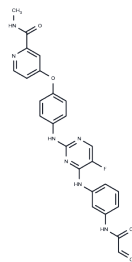


CNX-774

Chemical Properties

CAS No. : 1202759-32-7
Formula: C₂₆H₂₂FN₇O₃
Molecular Weight: 499.5
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	CNX-774 is a highly specific, irreversible, and orally active BTK inhibitor (IC ₅₀ <1 nM).
Targets(IC ₅₀)	BTK
In vivo	In a cellular assay, CNX-774 targeted residue Cys-481, the ATP-binding site of BTK, thereby inhibiting its activity (IC ₅₀ : 1-10 nM).
Kinase Assay	In vitro kinase assays: The p38 α and p38 β are assayed in 25 mM Tris-HCl, pH 7.5, containing 0.1 mM EGTA, with myelin basic protein (0.33 mg/mL) as substrate. Assays are performed either manually for 10 minutes at 30 °C in 50 μ L incubations using [γ -33P] ATP, or with a Biomek 2000 Laboratory Automation Workstation in a 96-well format for 40 minutes at ambient temperature in 25 μ L incubations using [γ -33P]ATP. The concentrations of ATP and magnesium acetate are 0.1 mM and 10 mM respectively. All assays are initiated with MgATP. Manual assays are terminated by spotting aliquots of incubation on to phosphocellulose paper, followed by immersion in 50 mM phosphoric acid. Robotic assays are terminated by the addition of 5 μ L of 0.5 M phosphoric acid before spotting aliquots on to P30 filter mats. All papers are then washed four times in 50 mM phosphoric acid to remove ATP, once in acetone (manual incubations) or methanol (robotic incubations), and then dried and counted for radioactivity.

Solubility Information

Solubility	Ethanol: 2 mg/mL (4 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 93 mg/mL (186.19 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.002 mL	10.010 mL	20.020 mL
5 mM	0.4004 mL	2.002 mL	4.004 mL
10 mM	0.2002 mL	1.001 mL	2.002 mL
50 mM	0.040 mL	0.2002 mL	0.4004 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

Labenski M. 17th North Am Meet Int Soc Study Xenobiot (ISSX) 2011. Abst. P211.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481