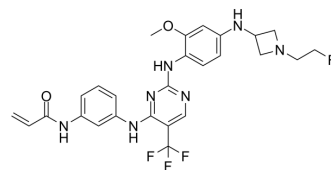


CNX-2006

Cat. No.:	HY-13897												
CAS No.:	1375465-09-0												
Molecular Formula:	C ₂₆ H ₂₇ F ₄ N ₇ O ₂												
Molecular Weight:	545.53												
Target:	EGFR												
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK												
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>2 years</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 year</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	2 years		-20°C	1 year
Powder	-20°C	3 years											
	4°C	2 years											
In solvent	-80°C	2 years											
	-20°C	1 year											



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 52 mg/mL (95.32 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass			
	Concentration	1 mg	5 mg	10 mg
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	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	CNX-2006 is a mutant-selective and irreversible EGFR inhibitor with an IC ₅₀ below 20 nM for EGFR ^{T790M} .	
IC₅₀ & Target	EGFR ^{T790M} 20 nM (IC ₅₀)	EGFR ^{L858R/T790M}
In Vitro	<p>CNX-2006 inhibits EGFR-T790M cells growth up to 1000-fold more compared to wild-type EGFR cells. EGFR inhibition is observed in cells harbouring the T790M mutation at IC₅₀ values below 20 nM after 1 hour exposure to the drug. CNX-2006 also significantly reduces the volume of tumor spheres derived from H1975 cells^[1]. CNX-2006 exhibits specificity and potent activity against T790M. The drug also shows activity against uncommon EGFR mutations including G719S, L861Q, an exon 19 insertion mutant (I744-K745insKIPVAL), and T854A, but not an exon 20 insertion (H773-V774HVDup). In an in vitro resistance model, CNX-2006 significantly inhibits the emergence of resistant cells. Chronic exposure to escalating doses of CNX-2006 fails to select for and/or enhance T790M-mediated resistance using PC-9 or HCC827 cells (both harboring exon 19 deletions), or PC-9/ER and HCC827/ER cells with existing T790M and resistance to erlotinib^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

REFERENCES

- [1]. Galvani E, et al. Abstract 3244: Role of epithelial-mesenchymal transition (EMT) in sensitivity to CNX-2006, a novel mutant-selective EGFR inhibitor which overcomes in vitro T790M-mediated resistance in NSCLC. CNX-2006, a novel mutant-selective EGFR inhib
- [2]. Ohashi K, et al. Abstract 2101A: CNX-2006, a novel irreversible epidermal growth factor receptor (EGFR) inhibitor, selectively inhibits EGFR T790M and fails to induce T790M-mediated resistance in vitro. [abstract]. In: Proceedings of the 104th Annual Meet
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Caution: Product has not been fully validated for medical applications. For research use only.

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