Tuxobertinib

Cat. No.:	HY-136789			
CAS No.:	2414572-47-5			
Molecular Formula:	C ₂₉ H ₂₉ ClN ₆ O ₄			
Molecular Weight:	561.03			
Target:	EGFR			
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	1 year	
		-20°C	6 months	

SOLVENT & SOLUBILITY

In Vitro	DMSO : 41.67 mg/mL (74.27 mM; Need ultrasonic)					
Preparing Stock Solutions	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	1.7824 mL	8.9122 mL	17.8244 mL	
		5 mM	0.3565 mL	1.7824 mL	3.5649 mL	
		10 mM	0.1782 mL	0.8912 mL	1.7824 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (3.71 mM); Suspended solution; Need ultrasonic					
	 Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.71 mM); Clear solution 					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.71 mM); Clear solution					

DIOLOGICALACITY				
Description	Tuxobertinib (BDTX-189) is a p including EGFR/HER2 exon 20 RIPK2, reapectively. Anticance	potent, orally active and selective insertion mutants. Tuxobertinib er activity ^[1] .	e inhibitor of allosteric EGFR and shows K _D s of 0.2, 0.76, 13 and 1.2	HER2 oncogenic mutation 2 nM for EGFR, HER2, BLK
IC ₅₀ & Target	EGFR 0.2 nM (Kd)	HER2 0.76 nM (Kd)	RIPK2 1.2 nM (Kd)	BLK 13 nM (Kd)

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In Vitro	Tuxobertinib is a masterKey inhibitor of the ERBB allosteric mutant oncogene family with antiproliferative activity (IC ₅₀ <100 nM for ERBB allosteric mutant oncogene family) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Tuxobertinib (0-100 mg/kg; p.o.; daily for 15 dyas) shows dose-dependent tumor growth inhibition and regression in in athymic nude mice bearing HER2 S310F Ba/F3 allograft tumors ^[1] . Tuxobertinib (1-50 mg/kg.p.o.; daily for 15 days) shows dose-dependent tumor growth inhibition and regression in athymic nude mice bearing CUTO-14 PDX tumors that express the EGFR mutation EGFR ASV ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Elizabeth Buck, et al. BDTX-189, a Potent and Selective Inhibitor of Allosteric EGFR and HER2 Oncogenic Mutations.

Caution: Product has not been fully validated for medical applications. For research use only.

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