Theliatinib

Cat. No.:	HY-104066		
CAS No.:	1353644-70	-8	
Molecular Formula:	$C_{25}H_{26}N_6O_2$		
Molecular Weight:	442.51		
Target:	EGFR		
Pathway:	JAK/STAT S	ignaling;	Protein Tyrosine Kinase/RTK
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2598 mL	11.2992 mL	22.5984 m
Stock Solutions	5 mM	0.4520 mL	2.2598 mL	4.5197 ml
	10 mM	0.2260 mL	1.1299 mL	2.2598 mL

BIOLOGICAL ACTIV	ТТҮ		
Description	an IC ₅₀ of 3 nM. Theliatinib ha EGFR than other kinases ^[1] . Th	s an IC ₅₀ of 22 nM for EGFR T790N	ve and highly selective EGFR inhibitor with a K _i of 0.05 nM and M/L858R mutant. Theliatinib shows >50-fold selectivity for gent, it contains an Alkyne group and can undergo copper- containing Azide groups.
IC₅₀ & Target	EGFR 3 nM (IC ₅₀)	EGFR 0.05 nM (Ki)	EGFR (L858R/T790M) 22 nM (IC ₅₀)
In Vitro	and FaDu cells survival with IC	C ₅₀ values of 80 nM, 58 nM and 35	cells with an IC ₅₀ of 7 nM. Theliatinib also inhibits A431, H292 4 nM, respectively ^[1] . hethods. They are for reference only.
In Vivo	(O, O,	administration;daily; for 21 days; on of 75% at the end of study, and	NOD-SCID mice; PDECX 1T0950 model) treatment d with a dose response ^[1] .

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Product Data Sheet

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MCE has not independe	ently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	NOD-SCID mice injected with esophageal cancer cells (PDECX 1T0950 model) $^{[1]}$
Dosage:	2 mg/kg, 5 mg/kg, 15 mg/kg
Administration:	Oral administration;daily; for 21 days
Result:	Attenuated tumor growth in PDECX 1T0950 model in a dose-dependent manner

REFERENCES

[1]. Ren Y, et al. Anti-tumor efficacy of theliatinib in esophageal cancer patient-derived xenografts models with epidermal growth factor receptor (EGFR) overexpression and gene amplification. Oncotarget. 2017 Apr 19;8(31):50832-50844.

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

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