## Cevipabulin

Cat. No.:	HY-14949		
CAS No.:	849550-05-6		
Molecular Formula:	C <sub>18</sub> H <sub>18</sub> ClF <sub>5</sub> N <sub>6</sub> O		
Molecular Weight:	464.82		
Target:	Microtubule/Tubulin		
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

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## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	2.1514 mL	10.7569 mL	21.5137 mL	
		5 mM	0.4303 mL	2.1514 mL	4.3027 mL	
		10 mM	0.2151 mL	1.0757 mL	2.1514 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.			
/ivo		one by one: 10% DMSO >> 40% PE( ng/mL (3.59 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline		
Solubility: 1.67 mg 3. Add each solvent	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1.67 mg/mL (3.59 mM); Suspended solution; Need ultrasonic					
	one by one: 10% DMSO >> 90% corn oil ng/mL (3.59 mM); Clear solution					

BIOLOGICAL ACTIVITY			
Description	Cevipabulin (TTI-237) is an oral, microtubule-active antitumor compound and inhibits the binding of [ <sup>3</sup> H] vinblastine to tubulin, with an IC <sub>50</sub> of 18-40 nM for cytotoxicity in human tumor cell line <sup>[1][2]</sup> .		
IC <sub>50</sub> & Target	IC50: 18-40 nM (microtubule in human tumor cells) <sup>[1]</sup> .		
In Vitro	Cevipabulin (0-50 nM, 72 hours) shows good activity (between 18 and 40 nM IC <sub>50</sub> values) on cell lines from ovarian, breast, prostate, and cervical tumors <sup>[1]</sup> . Flow cytometry experiments reveal that, Cevipabulin (TTI-237) at low concentrations (20-40 nM) produces sub-G <sub>1</sub> nuclei		

# Product Data Sheet

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		tions above 50 nM, it causes a strong G <sub>2</sub> -M block <sup>[1]</sup> . Dendently confirmed the accuracy of these methods. They are for reference only. ssay <sup>[1]</sup>			
	Cell Line:	Human cancer cell lines (SK-OV-3, MDA-MB-435, MDA-MB-468, LnCaP, and Hela cells).			
	Concentration:	0-50 nM			
	Incubation Time:	72 hours			
	Result:	The IC <sub>50</sub> values are 24±8 nM, 21±4 nM, 18±6 nM, 22±7 nM and 40 nM in SK-OV-3, MDA-MB- 435, MDA-MB-468, LnCaP and Hela cells.			
In Vivo	against human tumor x	Cevipabulin (TTI-2370)( 5, 10, 15, and 20 mg/kg, every 4 days for 4 cycles, in mice) is active by i.v. and p.o. administration against human tumor xenografts, showing dose-dependent effects, with good antitumor activity at 20 and 15 mg/kg <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	Athymic nu/nu female mice implanted s.c. in the flank with $1 \times 10^7$ LoVo human colon adenocarcinoma cells <sup>[1]</sup>			
	Dosage:	5, 10, 15, and 20 mg/kg			
	Administration:	I.V. injection every 4 days for 4 cycles.			
	Result:	The compound showed dose-dependent effects, with good antitumor activity at 20 and 15 mg/kg.			
	Animal Model:	Athymic nu/nu female mice implanted s.c. in the flank with $1 \times 10^6$ U87-MG human glioblastoma cells <sup>[1]</sup> .			
	Dosage:	25 mg/kg			
	Administration:	P.O. or I.V.			
	Result:	The compound was active by p.o. or i.v. administration against human tumor xenografts.			

### CUSTOMER VALIDATION

- Biochem Biophys Res Commun. 2019 Aug 27;516(3):760-764.
- Polym J. 52, 969-976 (2020).

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#### REFERENCES

[1]. Beyer CF, et al. TTI-237: a novel microtubule-active compound with in vivo antitumor activity. Cancer Res. 2008 Apr 1;68(7):2292-300.

[2]. Beyer CF, et al. The microtubule-active antitumor compound TTI-237 has both paclitaxel-like and vincristine-like properties. Cancer Chemother Pharmacol. 2009 Sep;64(4):681-9.

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

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