Cevipabulin fumarate

Cat. No.:	HY-14949C	
CAS No.:	849550-67-0	F
Molecular Formula:	$C_{22}H_{22}ClF_{5}N_{6}O_{5}$	
Molecular Weight:	580.89	
Target:	Microtubule/Tubulin	
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton	HO 🐟 🗍
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	ОН

SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (86.07 mM; Need ultrasonic) H ₂ O : 1.43 mg/mL (2.46 mM; ultrasonic and warming and heat to 60°C)					
		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	1.7215 mL	8.6075 mL	17.2150 mL	
	Stock Solutions	5 mM	0.3443 mL	1.7215 mL	3.4430 mL	
		10 mM	0.1721 mL	0.8607 mL	1.7215 mL	
	Please refer to the solubility information to select the appropriate solvent.					

	VIIV		
DIOLOGICAL ACTIV			
Description	Cevipabulin fumarate (TTI-237 fumarate) is an oral, microtubule-active, antitumor compound and inhibits the binding of [³ H]NSC 49842 to tubulin, with an IC ₅₀ of 18-40 nM for cytotoxicity in human tumor cell line ^{[1][2]} .		
IC ₅₀ & Target	IC50: 18-40 nM (microtubule in human tumor cells) ^[1] .		
In Vitro	Cevipabulin (0-50 nM, 72 hours) shows good activity (between 18 and 40 nM IC ₅₀ values) on cell lines from ovarian, breast, prostate, and cervical tumors ^[1] . Flow cytometry experiments reveal that, Cevipabulin (TTI-237) at low concentrations (20-40 nM) produces sub-G ₁ nuclei and, at concentrations above 50 nM, it causes a strong G ₂ -M block ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay ^[1]		
	Cell Line:	Human cancer cell lines (SK-OV-3, MDA-MB-435, MDA-MB-468, LnCaP, and Hela cells).	
	Concentration:	0-50 nM	

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	Incubation Time:	72 hours
	Result:	The IC ₅₀ 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	Cevipabulin (TTI-2370)(against human tumor xe MCE has not independer	5, 10, 15, and 20 mg/kg, every 4 days for 4 cycles, in mice) is active by i.v. and p.o. administration enografts, showing dose-dependent effects, with good antitumor activity at 20 and 15 mg/kg ^[1] . ntly 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 1×10 ⁷ LoVo human colon adenocarcinoma cells ^[1] .
	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 1 mg/kg.
	Animal Model:	Athymic nu/nu female mice implanted s.c. in the flank with 1×10^6 U87-MG human glioblastoma cells ^[1] .
	Dosage:	25 mg/kg.
	Administration:	P.O. or I.V. on days 0, 7, 14.
	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 DB01229-like and Leurocristine-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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