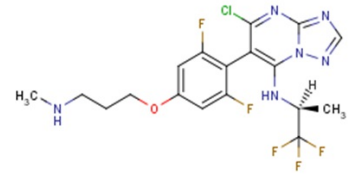


## Data Sheet (Cat.No.T10772)

### Cevipabulin

#### Chemical Properties

CAS No.:	849550-05-6
Formula:	C <sub>18</sub> H <sub>18</sub> ClF <sub>5</sub> N <sub>6</sub> O
Molecular Weight:	464.82
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



#### Biological Description

Description	Cevipabulin (TTI-237) is a microtubule-active antitumor compound and inhibits the binding of [3H] vinblastine to tubulin (IC <sub>50</sub> : 18-40 nM in the human tumor cell line).
Targets(IC <sub>50</sub> )	microtubule in human tumor cells: 18-40 nM
In vitro	Cevipabulin (0-50 nM, 72 hours) shows good activity (IC <sub>50</sub> s: 18~40 nM) on cell lines from ovarian, breast, prostate, and cervical tumors. Cevipabulin at low concentrations (20-40 nM) produces sub-G1 nuclei and, at concentrations above 50 nM, it causes a strong G2-M block [1].
In vivo	In mice, Cevipabulin ( 5, 10, 15, and 20 mg/kg, every 4 days for 4 cycles; i.v. and p.o.) is active against human tumor xenografts and showing dose-dependent effects, with good antitumor activity at 20 and 15 mg/kg [1].

#### Solubility Information

Solubility	DMSO: 16.67 mg/mL (35.86 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.151 mL	10.757 mL	21.514 mL
5 mM	0.43 mL	2.151 mL	4.303 mL
10 mM	0.215 mL	1.076 mL	2.151 mL
50 mM	0.043 mL	0.215 mL	0.43 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

- 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.
- 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.

Inhibitors · Natural Compounds · Compound Libraries

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