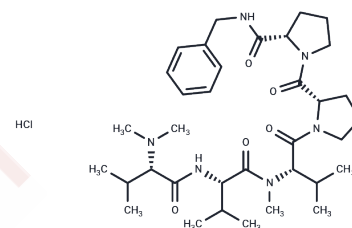


## Cemadotin hydrochloride

### Chemical Properties

CAS No. :	172837-41-1
Formula:	C <sub>35</sub> H <sub>57</sub> ClN <sub>6</sub> O <sub>5</sub>
Molecular Weight:	677.33
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



### Biological Description

Description	Cemadotin hydrochloride is the salt form of Cemadotin (free base), also known as, LU103793, a mitosis inhibitor potentially for the treatment of solid tumours. Cemadotin is also a synthetic derivative of Dolastatin 15, an antiproliferative compound which was isolated from the mollusk <i>Dolabella auricularia</i> . Like Dolastatin 15, LU103793 is highly cytotoxic in vitro (IC <sub>50</sub> = 0.1 nM). LU103793 inhibits microtubule polymerization in a concentration-dependent manner (IC <sub>50</sub> = 7 µM). Treatment with this compound also induced depolymerization of preassembled microtubules. Cell cycle analysis of tumor cell lines treated with LU103793 indicated a block in the G <sub>2</sub> -M phase.
Targets(IC <sub>50</sub> )	Others, Microtubule Associated

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4764 mL	7.3819 mL	14.7639 mL
5 mM	0.2953 mL	1.4764 mL	2.9528 mL
10 mM	0.1476 mL	0.7382 mL	1.4764 mL
50 mM	0.0295 mL	0.1476 mL	0.2953 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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