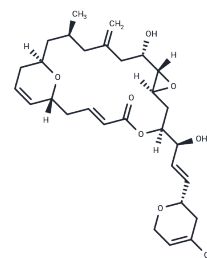


Laulimalide

Chemical Properties

CAS No. :	115268-43-4
Formula:	C ₃₀ H ₄₂ O ₇
Molecular Weight:	514.65
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	Microtubule stabilizing agent. Potent inhibitor of cellular proliferation in cancer cell lines (IC ₅₀ reported to be 3-30 nM, dependent on cell line used). Causes cells to arrest in the prometaphase of the cell cycle, prevents formation of bipolar spindle and increases kinetochore tension in preformed spindles.
Targets(IC ₅₀)	Apoptosis,Others,Microtubule Associated

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9431 mL	9.7153 mL	19.4307 mL
5 mM	0.3886 mL	1.9431 mL	3.8861 mL
10 mM	0.1943 mL	0.9715 mL	1.9431 mL
50 mM	0.0389 mL	0.1943 mL	0.3886 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.

Reference

- Pryor et al (2002) The microtubule stabilizing agent laulimalide does not bind in the taxoid site, kills cells resistant to Paclitaxel and epothilones, and may not require its epoxide moiety for activity. *Biochemistry*. 41 9109 PMID: 12119025
- Bennett et al (2012) Low-dose laulimalide represents a novel molecular probe for investigating microtubule organization. *Cell Cycle*. 11 3045 PMID:22871740
- Bennett et al (2010) Discovery and characterization of the laulimalide-microtubule binding mode by mass shift perturbation mapping. *Chem.Biol.* 17 725 PMID:20659685

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