
Product Data Sheet

Product Name: Laulimalide

Cat. No.: GC50052

Chemical Properties

Cas. No. 115268-43-4

SMILES O=C(O[C@H])([C@@H](O)/C=C/[C@]1([H])CC(C)=CCO1)[C@]2([H])O[C@@]2([H])[C@@H](O)C3)/C=C\C[C@]4([H])C=CC[C@](C[C@@H](C)CC3=C)([H])O4

Formula	C ₃₀ H ₄₂ O ₇	M.Wt	514.65
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Microtubule stabilizing agent. Potent inhibitor of cellular proliferation in cancer cell lines (IC₅₀ 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.

Pryor et al (2002) The microtubule stabilizing agent laulimalide does not bind in the taxoid site, kills cells resistant to PacT. 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

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

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