

Product Data Sheet

Product Name: Iso cephalomannine

Cat. No.: GC79015

Chemical Properties

Cas. No. 173101-54-7

Formula $C_{45}H_{53}NO_{14}$

M.Wt 831.9

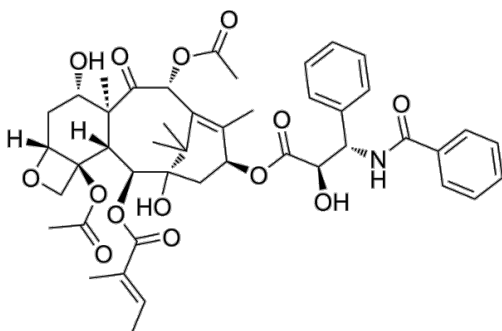
Solubility

Storage Store at -20°C

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

Iso cephalomannine is a tubulin -targeting cytotoxic agent. Iso cephalomannine induces cytotoxicity in breast cancer cells. Iso cephalomannine can be used in breast cancer-related research [1].

In Vitro, Iso cephalomannine (compound 1d) exhibits reduced tubulin-binding activity in cell-free microtubule assembly assays, with an ED50 ratio of 1.1 relative to Paclitaxel [1]. Iso cephalomannine exhibits low cytotoxicity against human breast cancer MCF7 cells, with an ED50 ratio of 12 relative to Paclitaxel [1]. Iso cephalomannine shows no detectable cytotoxicity against MCF7-R drug-resistant

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

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human breast cancer cells, with an ED50 greater than 5000 nM^[1].

References:

[1]. Gabetta B, et al. Paclitaxel analogues from *Taxus x media* cv. *Hicksii*. *J Nat Prod*. 1999;62(2):219-223.

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