

## Product Data Sheet

Product Name: Millepachine

Cat. No.: GC61065

### Chemical Properties

Cas. No. 1393922-01-4

SMILES O=C(C1=C2C(C=CC(C)(C)O2)=C(OC)C=C1)/C=C/C3=CC=C(OC)C=C3

Formula  $C_{22}H_{22}O_4$

M.Wt 350.41

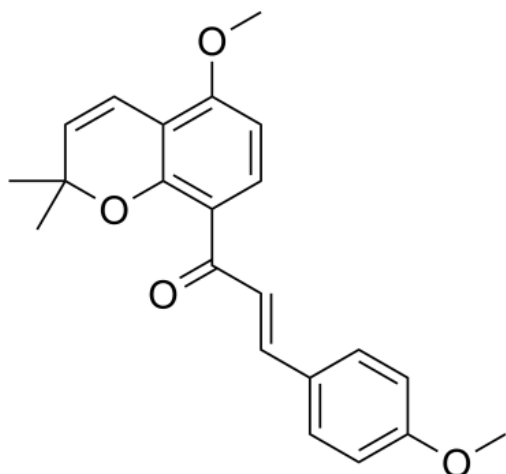
Solubility

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

Millepachine is a bioactive natural chalcone from Chinese herbal medicine *Millettia pachycarpa* Benth, exhibits strong antitumor effects against numerous human cancer cells both in vitro and in vivo[1].

Millepachine (1.25-20 μM; 48 h) remarkably inhibits the proliferation of cisplatin-resistant A2780CP cells[1]. Millepachine (2-8 μM; 24 or 48 h) induces G2/M arrest and apoptosis cisplatin-sensitive A2780S and cisplatin-resistant A2780CP cells[1]. Millepachine (2-8 μM; 24 h) decreases

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

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topoisomerase II levels in A2780S and A2780CP cells[1].Millepachine (2-8  $\mu$ M; 24 h) inhibits ATP-binding cassette transporter activity in A2780CP cells[1]. Cell Proliferation Assay[1] Cell Line: A2780CP cells

Millepachine (20 mg/kg; i.v. every two days for 14 day) inhibits tumor growth in mice[1].Millepachine (20 mg/kg; i.v. every two days for 14 day) does not induce acquired drug resistance in an excised A2780S xenograft model[1]. Animal Model: Female BALB/c nude mice (6 weeks) are injected A2780S or A2780CP cells[1]

[1]. Wu W, et, al. Millepachine showed novel antitumor effects in cisplatin-resistant human ovarian cancer through inhibiting drug efflux function of ATP-binding cassette transporters. Phytother Res. 2018 Dec; 32(12):2428-2435.

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