

Product Data Sheet

Product Name: Podocarpusflavone A

Cat. No.: GC33143

Chemical Properties

Cas. No. 22136-74-9

SMILES O=C1C=C(C2=CC=C(OC)C=C2)OC3=C(C4=CC(C5=CC(C6=C(O)C=C(O)C=C6O5)=O)=CC=C4O)C(O)=CC(O)=C13

Formula $C_{31}H_{20}O_{10}$

M.Wt 552.48

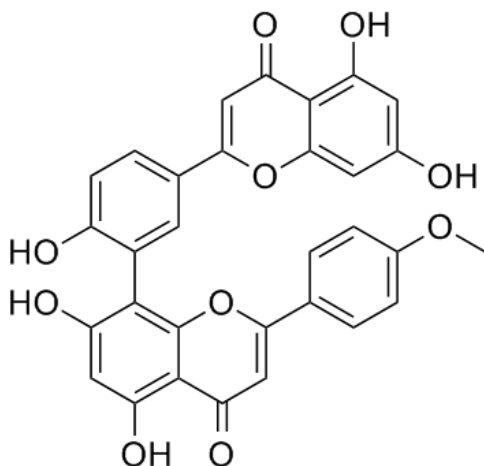
Solubility Soluble in DMSO

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

Podocarpusflavone A is a DNA topoisomerase I inhibitor, have moderated anti-proliferative activity induce cell apoptosis in MCF-7, is developing anti-tumor drugtarget: DNA topoisomerase II In vitro: podocarpusflavone-A show significant inhibitions against DLD, KB, MCF-7, HEp-2 tumor cell lines (ED50 4.56-16.24 µg/mL) and induce cell apoptosis in MCF-7 via mainly sub-G1/S phase arrest. PF (40 ug/mL, 24 hr) significantly induced about 10 folds of cell deaths and growth arrest in S-phase

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

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than the control group.

[1]. Pen-Ho Yeh et al. Naturally Occurring Cytotoxic [3'→8'']-Biflavonoids from Podocarpus nakaiiJ Tradit Complement Med. 2012 Jul;2(3):220-6.

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