

Product Data Sheet

Product Name: Ferutinin

Cat. No.: GC18641

Chemical Properties

Cas. No. 41743-44-6

Chemical Name 4-hydroxy-benzoic acid, (3R,3aS,4S,8aR)-1,2,3,3a,4,5,8,8a-octahydro-3-hydroxy-6,8a-dimethyl-3-(1-methylethyl)-4-azulenyl ester

SMILES OC1=CC=C(C(O[C@H]2CC(C)=CC[C@]3(C)[C@]2([H])[C@@](C(C)C)(O)CC3=O)C=C1

Formula C₂₂H₃₀O₄

M.Wt 358.5

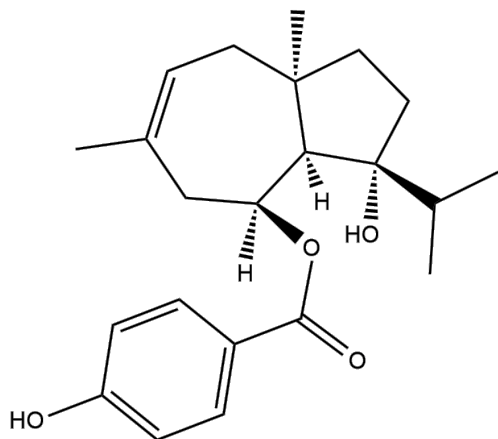
Solubility DMSO : 50 mg/mL (139.48 mM; Need ultrasonic)

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

Ferutinin is a plant-derived ester of a sesquiterpene alcohol that acts as an agonist for estrogen receptor (ER) α (IC₅₀ = 33.1 nM) and an agonist/antagonist for ER β (IC₅₀ = 180.5 nM). It also demonstrates ionophoretic properties, increasing calcium permeability of lipid bilayer membranes, mitochondria, thymocytes, sarcoplasmic reticulum, and liposomes at a concentration range of 1-50

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

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uM. Ferutinin is cytotoxic to MCF-7 breast and TCC bladder cancer cells as well as human foreskin HFF3 fibroblasts (IC50s = 29, 24, and 36 ug/ml in vitro after 72 hours of exposure).

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