

Product Data Sheet

Product Name: Decursinol angelate

Cat. No.: GC41151

Chemical Properties

Cas. No. 130848-06-5

SMILES O=C1C=CC(C=C(C[C@H](OC/C(C)=C\C)=O)C(C)(C)O2)C2=C3)=C3O1

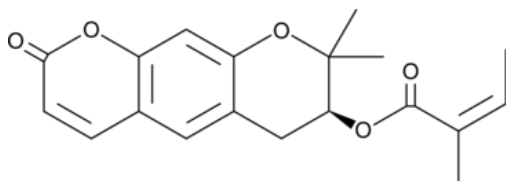
Formula C₁₉H₂₀O₅ M.Wt 328.4

Solubility DMF: 10 mg/ml, DMF:PBS(pH 7.2) (1:1): 0.5 mg/ml, DMSO: 2 mg/ml, Ethanol: 1 mg/ml
 Storage 4°C, protect from light

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

Decursinol angelate is a pyranocoumarin that has been found in the Korean medicinal herb *A. gigas* and has diverse biological activities. It inhibits the growth of K562, HL-60, KG-1, SK-BR-3, AGS, A549, HeLa, HepG2, and G-361 cancer cells (ED₅₀s = 24-56 μM) and decreases estrogen-stimulated growth of MCF-7 breast cancer cells in a concentration-dependent manner via decreased estrogen receptor α (ERα) protein levels and signaling activity. Decursinol angelate (30 μM) activates PKC purified from rat brain. It selectively inhibits the cytochrome P450 (CYP) isoform CYP1A1/2 over CYP2D15 and CYP3A12 in canine liver microsomes (K_is = 67.56, 872.5, and 853.9 μM, respectively). Decursinol angelate (0.01-10 μM) reduces cytotoxicity and malondialdehyde (MDA) production induced by amyloid-β (23-35) (Aβ₂₅₋₃₅) and increases superoxide dismutase (SOD) and glutathione peroxidase (GPx) activities in PC12 cells. In mice, decursinol angelate (200 mg/kg) has antinociceptive activity in the tail flick and hot plate tests and reduces acetic acid-induced writhing as

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

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well as decreases production of the pro-inflammatory cytokines TNF- α and IL-1 β .

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