

Product Data Sheet

Product Name: Kahweol
Cat. No.: GC40573

Chemical Properties

Cas. No. 6894-43-5

SMILES OC[C@]1(O)[C@@]2([H])C[C@]3(C1)CCC4C5=C(OC=C5)C=C[C@@]4(C)C3CC2

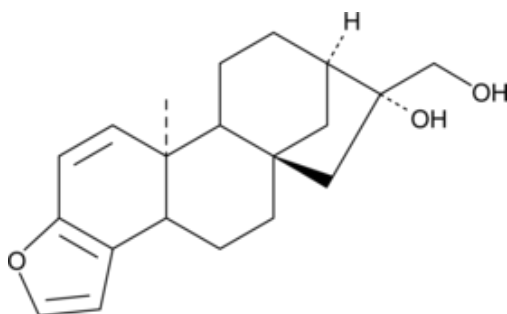
Formula C₂₀H₂₆O₃ M.Wt 314.4

Solubility DMF: 5 mg/ml, DMSO: 3 mg/ml, Ethanol: 5 mg/ml, Ethanol: PBS (pH 7.2) (1:50): 0.02 mg/ml
Storage Store at -20°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

Kahweol is a natural diterpene that is isolated from coffee beans. It increases glutathione S-transferase activity in the gut mucosa of mice and, with the diterpene cafestol, induces glutathione S-transferase expression in rat livers. Kahweol has anti-inflammatory effects in RAW macrophages, inhibiting LPS-induced nitric oxide and prostaglandin E₂ production (IC₅₀ = 54 and 23 μM, respectively). Kahweol also is antiangiogenic, blocking the proliferation of endothelial cells (IC₅₀ = 50 μM) and inhibiting endothelial migration, invasion, and tube formation. Kahweol is easily oxidized in the presence of air.

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

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