LKT Laboratories, Inc.

Kahweol

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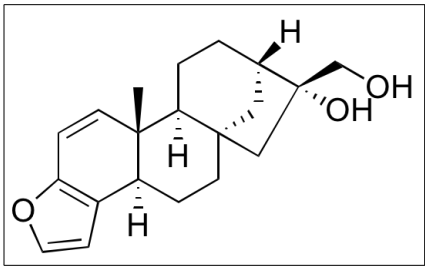
Product Information

Product ID K0030
CAS No. 6894-43-5
Chemical Name

Synonym

Formula $C_{20}H_{26}O_3$
Formula Wt. 314.42
Melting Point 143-144°C
Purity ≥97%
Solubility Soluble in ethanol (5 mg/mL), DMF (5 mg/mL), DMSO (3 mg/mL).

Store Temp -20°C
Ship Temp Blue Ice



Bulk quanitites available upon request

Product ID	Size
K0030	10 mg
K0030	25 mg
K0030	100 mg
K0030	500 mg

Description Kahweol is a diterpene found in coffee beans that exhibits neuromodulatory, anti-osteoporotic, anti-resorptive, anti-inflammatory, antioxidative, anti-angiogenic, anticancer, and chemopreventive activities. Like other coffee compounds, kahweol may also display hyperlipidemic properties. In vitro, kahweol inhibits RANKL-induced osteoclast generation and bone resorbing activity. In other cellular and animal models, kahweol inhibits cell proliferation, migration, invasion, and tube formation, and suppresses expression of MCP-1 and COX-2. Additionally, kahweol activates Nrf2. In oral squamous cell carcinoma cells, this compound induces G1 phase cell cycle arrest and apoptosis and downregulates expression of Sp1. In vitro, kahweol inhibits aflatoxin B1-induced DNA adduct formation and increases levels of glutathione-S-transferase. This compound also inhibits H2O2-induced DNA damage and oxidative stress and decreases superoxide anion formation in vitro.

References

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