

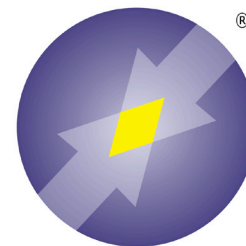
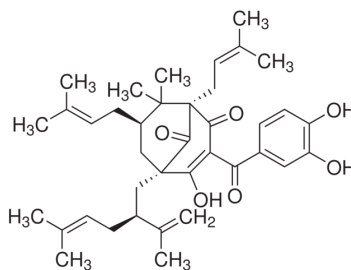
Garcinol

Catalog Number P017-5MG

Catalog Number P017-25MG

FEATURES

- Potent histone acetyltransferases inhibitor
- Induces HeLa cell apoptosis
- Anti-inflammatory and anti-carcinogenic



ARBOR
ASSAYS

INTRODUCTION

Garcinol is an inhibitor of the histone acetyltransferases (HATs) p300 and PCAF with IC_{50} of 7 and 5 μ M, respectively. It also inhibits the HAT GCN5 in *Cryptococcus neoformans*, inducing temperature sensitivity and impairing growth. A polyisoprenylated benzophenone isolated from *Garcinia indica*, garcinol promotes neurogenesis and *ex vivo* expansion of human hematopoietic stem cells. It induces apoptosis in several types of cancer cells and has anti-inflammatory actions.

FORM: Yellow solid

MOLECULAR WEIGHT: 602.80

STORAGE: 4°C

FORMULA: $C_{38}H_{50}O_6$

CAS NUMBER: 78824-30-3

OTHER NAMES: (1R,5R,7R)-3-(3,4-Dihydroxybenzoyl)-4-hydroxy-8,8-dimethyl-1,7-bis(3-methyl-2-buten-1-yl)-5-[(2S)-5-methyl-2-(1-methylethenyl)-4-hexen-1-yl]-Bicyclo[3.3.1]-non-3-ene-2,9-dione, Camboginol

USES: Soluble to 25 mg/mL in ethanol, DMSO or DMF.

REFERENCES:

Mantelingu, K., et al. Specific inhibition of p300-HAT alters global gene expression and represses HIV replication. *Chem. Biol.* 14 645-657 (2007).

Cole, P.A. Chemical probes for histone-modifying enzymes. *Nat. Chem. Biol.* 4(10) 590-597 (2008).

Balasubramanyam, K., et al. Polyisoprenylated benzophenone, garcinol, a natural histone acetyltransferase inhibitor, represses chromatin transcription and alters global gene expression. *J. Biol. Chem.* 279:6, 33716-33726 (2004).

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