

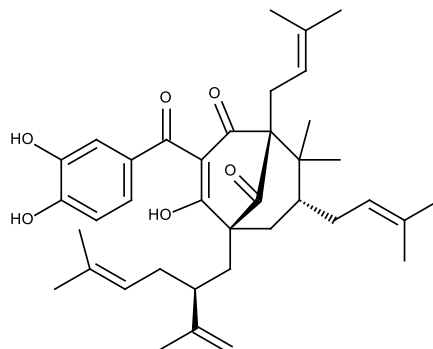


Catalog # 10-1337

Garcinol

CAS# 78824-30-3

Lot # S105036



Garcinol is a HAT (histone acetyltransferase) inhibitor (p300 IC_{50} =7 μ M and PCAF IC_{50} =5 μ M) both *in vitro* and *in vivo*.¹ It potentiates TRAIL-induced apoptosis of cancer cells. Garcinol, independent of the cell type, induces both of the TRAIL receptors, death receptor 4 (DR4) and DR5. Garcinol neither induces the receptors of normal cells nor sensitizes them to TRAIL.²

- 1) Balasubramanyam, *et al.*; (2004) *Polyisoprenylated benzophenone, garcinol, a natural histone acetyltransferase inhibitor, represses chromatin transcription and alters global gene expression* J. Biol. Chem. **279** 33716
- 2) Prasad, *et al.* (2010) *Garcinol potentiates TRAIL-induced apoptosis through modulation of death receptors and antiapoptotic proteins* Mol. Cancer Ther. **9**, 856

PHYSICAL DATA

Molecular Weight:	602.80
Molecular Formula:	C ₃₈ H ₅₀ O ₆
Purity:	>95% TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml); ethanol (up to 25 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Protect from exposure to air. Solutions in DMSO may be stored at -20°C for up to 1 month.

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