

Product Name	: Garcinol
Synonyms	: Camboginol
Cat No.	: M15966
CAS Number	: 78824-30-3
Molecular Formula	: C38H50O6
Formula Weight	: 602.81
Chemical Name	: 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
Description	Garcinol (Camboginol) is a potent, natural inhibitor of histone acetyltransferases (HATs) p300 (IC₅₀=7 uM) and PCAF (IC₅₀=5 uM) both in vitro and in vivo; downregulates various cell survival proteins including survivin, bcl-2, XIAP, and cFLIP, and induces bid cleavage, bax, and cytochrome c release, potentiates TRAIL-induced apoptosis through upregulation of death receptors and downregulation of antiapoptotic proteins; also stimulates neurogenesis and ex vivo expansion of human hematopoietic stem cells.
Pathway	: Chromatin/Epigenetic
Target	: HAT
Receptor	: HAT
Solubility	: —
SMILES	: <chem>CC(=CCC1CC2(C(=O)C(=C(C3=CC(=C(C=C3)O)O)C(=O)C(C2=O)(C1(C)C)CC=C(C)C)CC(CC=C(C)C)C(=C)C)C</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Balasubramanyam K, et al. J Biol Chem. 2004 Aug 6;279(32):33716-26. | 2. Prasad S, et al. Mol Cancer Ther. 2010 Apr;9(4):856-68. | 3. Nishino T, et al. PLoS One. 2011;6(9):e24298.