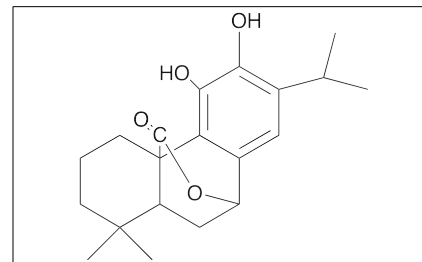


Product Information

Product ID C0267
CAS No. 5957-80-2
Chemical Name 2H-9,4a-(Epoxy-methano)phenanthren-12-one,1,3,4,9,110a-hexahydro-5,6-dihydroxy-1,1-dimethyl-7-(1-methylethyl)-, (4aR-(4a α ,9 α ,10 β))-
Synonym CCRIS 7122



Formula C₂₀H₂₆O₄
Formula Wt. 330.42
Melting Point 210-220 °C
Purity ≥98%
Solubility Soluble in DMSO, DMF or ethanol. Sparingly soluble in aqueous buffers.

Store Temp -20 °C
Ship Temp Blue Ice

Description Carnosol is a diterpene compound originally found in rosemary plants. Carnosol exhibits antidepressant, anti-inflammatory, anti-angiogenic, and anticancer chemotherapeutic activities. Carnosol inhibits microsomal prostaglandin E2 (PGE2) synthase and decreases production of pro-inflammatory PGE2; in vivo, it inhibits PMA-induced edema and decreases expression of IL-1 β and TNF- α . Carnosol inhibits the epithelial-to-mesenchymal transition (EMT) in ovarian cancer cells and decreases growth and viability in breast, ovarian, and intestinal cancer cells. In colon cancer cells, carnosol increases activation of caspases 3 and 9, induces cleavage of PARP, upregulates expression of p53, downregulates expression of MDM2, and suppresses activation of STAT3, JAK2, and Src. Additionally, this compound inhibits androgen and estrogen receptors, suppressing tumor growth and PSA levels in animal models of prostate cancer.

Bulk quantities available upon request

Product ID	Size
C0267	1 mg
C0267	5 mg
C0267	25 mg

References Vergara D, Simeone P, Bettini S, et al. Antitumor activity of the dietary diterpene carnosol against a panel of human cancer cell lines. *Food Funct.* 2014 Jun 28;5(6):1261-9. PMID: 24733049.

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Caution: This product is intended for laboratory and research use only. It is not for human or drug use.