

Product Information

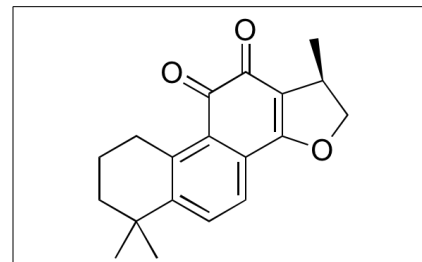
Product ID C7097
CAS No. 35825-57-1
Chemical Name

Synonym

Formula C₁₉H₂₀O₃
Formula Wt. 296.36
Melting Point 184-185 °C
Purity ≥90%
Solubility Soluble in chloroform,
methanol

Store Temp 4 °C
Ship Temp Ambient

Description Cryptotanshinone is a quinoid diterpene found in species of *Salvia* that exhibits anticancer and anti-angiogenic activities. Cryptotanshinone directly inhibits dimerization of STAT3, disrupting STAT3 activation and signaling and inhibiting proliferation in glioma cells. This compound also induces G1/G0 phase cell cycle arrest and inhibits activation of mTOR, p70S6K, and eIF4eBP in rhabdomyosarcoma cells. Additionally, cryptotanshinone downregulates expression of VEGF and inhibits HIF-1α signaling, disturbing tube formation in vitro.



Bulk quantities available upon request

Product ID	Size
C7097	10 mg
C7097	25 mg
C7097	100 mg

References Lu L, Li C, Li D, et al. Cryptotanshinone inhibits human glioma cell proliferation by suppressing STAT3 signaling. *Mol Cell Biochem.* 2013 Sep;381(1-2):273-82. PMID: 23740516.

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Chen W, Luo Y, Liu L, et al. Cryptotanshinone inhibits cancer cell proliferation by suppressing Mammalian target of rapamycin-mediated cyclin D1 expression and Rb phosphorylation. *Cancer Prev Res (Phila).* 2010 Aug;3(8):1015-25. PMID: 20628002.

Shin DS, Kim HN, Shin KD, et al. Cryptotanshinone inhibits constitutive signal transducer and activator of transcription 3 function through blocking the dimerization in DU145 prostate cancer cells. *Cancer Res.* 2009 Jan 1;69(1):193-202. PMID: 19118003.

Li W, Li J, Ashok M, et al. A cardiovascular drug rescues mice from lethal sepsis by selectively attenuating a late-acting proinflammatory mediator, high mobility group box 1. *J Immunol.* 2007 Mar 15;178(6):3856-3864. PMID: 17339485.

Zhang Y, Won SH, Jiang C, et al. Tanshinones from Chinese medicinal herb Danshen (*Salvia miltiorrhiza* Bunge) suppress prostate cancer growth and androgen receptor signaling. *Pharm Res.* 2012 Jun;29(6):1595-1608. PMID: 22281759.

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