



Product Information

Product ID T0154
CAS No. 568-72-9
Chemical Name Phenanthro(1,2-b)furan-10,11-dione, 6,7,8,9-tetrahydro-1,6,6-trimethyl-

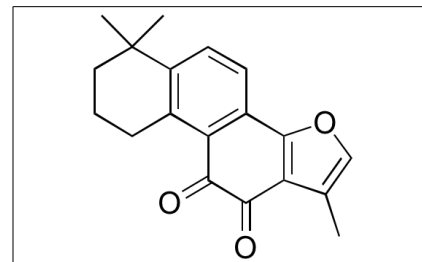
Synonym Dan Shen Ketone, Tanshinone II, Tanshinone B

Formula C₁₉H₁₈O₃
Formula Wt. 294.34
Melting Point 198-200 °C
Purity ≥93%
Solubility Soluble in DMSO.

Store Temp 4 °C

Ship Temp Ambient

Description Tanshinone IIA is found in *Salvia* and exhibits anticoagulant, neuroprotective, cognition enhancing, anti-atherosclerotic, and anticancer chemotherapeutic activities. Tanshinone IIA inhibits platelet aggregation, increasing bleeding time in vivo. Tanshinone IIA also decreases TNF- α -induced expression of VCAM-1 and ICAM-1 in vitro. In animal models of Alzheimer's disease, tanshinone IIA decreases learning and memory deficits and suppresses expression of iNOS and matrix metalloproteinase 2 (MMP2). In glioblastoma cells, this compound induces apoptosis and downregulates expression of STAT3 and IL-6; it also inhibits breast cancer tumor growth in animal models. Tanshinone IIA inhibits monoacylglycerol lipase (MAGL).



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T0154	10 mg	\$104.90
T0154	25 mg	\$217.40
T0154	100 mg	\$441.00

References Maione F, De Feo V, Caiazza E, et al. Tanshinone IIA, a major component of *Salvia miltiorrhiza* Bunge, inhibits platelet activation via Erk-2 signaling pathway. *J Ethnopharmacol.* 2014 Sep 11;155(2):1236-42. PMID: 25038434.

Yang L, Guo H, Dong L, et al. Tanshinone IIA inhibits the growth, attenuates the stemness and induces the apoptosis of human glioma stem cells. *Oncol Rep.* 2014 Sep;32(3):1303-11. PMID: 24970314.

Jiang P, Li C, Xiang Z, et al. Tanshinone IIA reduces the risk of Alzheimer's disease by inhibiting iNOS, MMP 2 and NF κ Bp65 transcription and translation in the temporal lobes of rat models of Alzheimer's disease. *Mol Med Rep.* 2014 Aug;10(2):689-94. PMID: 24859152.

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Lin C, Wang L, Wang H, et al. Tanshinone IIA inhibits breast cancer stem cells growth in vitro and in vivo through attenuation of IL-6/STAT3/NF- κ B signaling pathways. *J Cell Biochem.* 2013 Sep;114(9):2061-70. PMID: 23553622.

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

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