



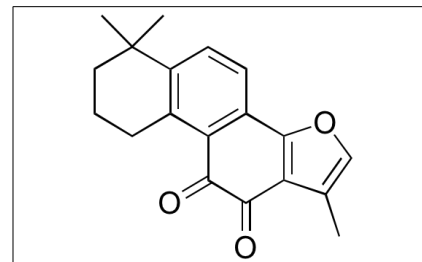
LKT Laboratories, Inc.

Tanshinone IIA

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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.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T0154	10 mg	\$142.90
T0154	25 mg	\$296.30
T0154	100 mg	\$601.00

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).

- 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 κBp65 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-κB 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.
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Caution: This product is intended for laboratory and research use only. It is not for human or drug use.