

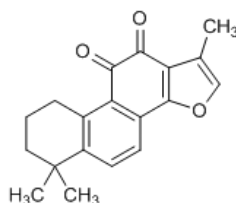
**Catalog # 10-2186**

**Tanshinone IIA**

CAS# 568-72-9

1,6,6-Trimethyl-6,7,8,9-tetrahydrophenanthro[1,2-b]furan-10,11-dione

Lot # X101524



Diterpenoid naphthoquinone found in *Salvia sp.* and isolated as an active component of the traditional Chinese medicine Tanshen. Tanshinone IIA displays anti-inflammatory activity<sup>1</sup> and induces apoptosis in a variety of cell lines<sup>2</sup>. Also inhibits AP-1 activity by suppressing jun-fos-DNA complex formation (IC<sub>50</sub> = 0.22 μM)<sup>3</sup>.

- 1) Kang *et al.* (2000), *Inhibition of interleukin-12 and interferon-gamma production in immune cells by tanshinones from Salvia miltiorrhiza*; Immunopharmacology, **49** 355
- 2) Sung *et al.* (1999), *Tanshinone IIA, an ingredient of Salvia miltiorrhiza BUNGE, induces apoptosis in human leukemia cell lines through the activation of caspase-3*; Exp. Mol. Med., **31** 174
- 3) Park *et al.* (1999), *Suppression of AP-1 Activity by Tanshinone and Cancer Cell Growth Inhibition*; Bull. Korean Chem. Soc., **20** 925

**PHYSICAL DATA**

Molecular Weight:	294.35
Molecular Formula:	C <sub>19</sub> H <sub>18</sub> O <sub>3</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or Ethanol (up to 5 mg/ml)
Physical Description:	Orange solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**