

Tanshindiol C Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Tanshindiol C

Catalog No.: CFN92147

Cas No.: 97465-71-9

Purity: > 98%

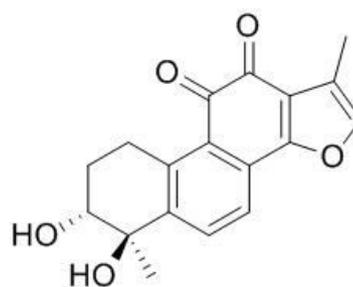
M.F: C₁₈H₁₆O₅

M.W: 312.3

Physical Description: Cryst.

Synonyms:

(6R)-6,7,8,9-Tetrahydro-6β,7α-dihydroxy-1,6-dimethylphenanthro[1,2-b]furan-10,11-dione.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The roots of *Salvia miltiorrhiza*.

[Biological Activity or Inhibitors]

Tanshindiol B and C potently inhibit the methyltransferase activity in in vitro enzymatic assay with IC50 values of 0.52uM and 0.55uM, respectively; tanshindiol C exhibits growth inhibition of several cancer cells including Pfeiffer cell line, a diffuse large B cell lymphoma harboring EZH2 A677G activating mutation; suggests that tanshindiols possess a unique anti-cancer activity whose mechanism involves the inhibition of EZH2 activity and would provide chemically valuable information for designing a new class of potent EZH2 inhibitors.^[1]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[2]

Mobile phase: Methanol- 1% Acetic acid H2O=8:92 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 280 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Woo J, Kim H Y, Byun B J, *et al. Bioorg. Med. Chem. Lett.*, 2014, 24(11):2486-92.

[2] Suo Y K, Huo B K, Qin J G. *Chinese Pharmaceutical Affairs*, 2012, 26(4):379-81.

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