

Tanshindiol B Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Tanshindiol B

Catalog No.: CFN92146

Cas No.: 97465-70-8

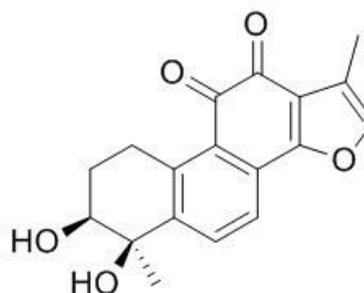
Purity: > 98%

M.F: C₁₈H₁₆O₅

M.W: 312.3

Physical Description: Cryst.

Synonyms: (6R)-6,7,8,9-Tetrahydro-6 β ,7 β -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, isolated from acetonic extract of *S. przewalskii*, it can inhibit the proliferation and migration of HUVEC, angiogenesis on CAM, and the secretion of VEGF in a dose-dependent manner; indicates that tanshindiol B possesses the anti-angiogenic activity, so it can be a promising candidate for angiogenesis inhibitors.^[1]

Tanshindiol B and C potently inhibit the methyltransferase activity in in vitro enzymatic assay with IC₅₀ values of 0.52 μM and 0.55 μM, respectively.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile-0.5% Acetic acid H₂O, gradient elution;

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 281 nm.

[Storage]

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

[References]

[1] Zhuang W T, Zhu L P, Xiang C, *et al.* *Chinese Traditional Patent Medicine*, 2014, 36(6):1146-50.

[2] Fan B Y, Gu Y C, He Y, *et al.* *Soviet Powder Metallurgy & Metal Ceramics*, 1986, 25(9):746-50.

[3] Wang H, Wang Q. *Journal of Chinese Pharmaceutical Sciences*, 2002, 11(4):148-52.

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