

Tanshinol B Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Tanshinol B

Catalog No.: CFN90370

Cas No.: 189290-30-0

Purity: > 98%

M.F: C₁₈H₁₆O₄

M.W: 296.32

Physical Description: Red needles

Synonyms:

[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]

Tanshinol attenuates oxidative stress via down-regulation of FoxO3a signaling, and

rescues the decrease of osteoblastic differentiation through upregulation of Wnt signal

under oxidative stress, suggest that the beneficial effects of Tanshinol may be adopted as

a novel therapeutic approach in recently recognized conditions of niche targeting

osteoporosis.[1]

Tanshinol protects hippocampus and attenuates vascular dementia development, it may

be a potential compound in vascular dementia (VD) model.[2]

Tanshinol protects against atherosclerosis by preventing H2O2-induced apoptosis of

human umbilical vein endothelial cells (HUVECs), these effects appear to be mediated by

enhancing the antioxidant defenses and preserving the mitochondrial function of the

cells.[3]

Tanshinol can stimulate bone formation and attenuate dexamethasone-induced inhibition

of osteogenesis in larval zebrafish.[4]

Tanshinol protects against hydrogen peroxide-induced oxidative stress via regulating

Wnt/FoxO pathway in osteoblastic differentiation of C2C12 cells.[5]

[Solvent]

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

[HPLC Method]^[6]

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

Flow rate: 1.0 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Yang Y, Su Y, Wang D, et al. Oxid. Med .Cell Longev., 2013, 2013(6):2409-20.

[2] Shi C G, Yang Y S, Li H, et al. J. Asian Nat. Prod. Res., 2014, 16(6):1-10.

[3] Song W, Pu J, He B. Mol . Med. Rep., 2014, 10(5):2764-70.

[4] Luo S, Yang Y, Chen J, et al. Journal of Orthopaedic Translation, 2015, 4:35-45.

[5] Yang Y J, Chen Y H, Wu T, et al. Acta Pharmacol. Sin., 2013, 34:33-33.

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

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