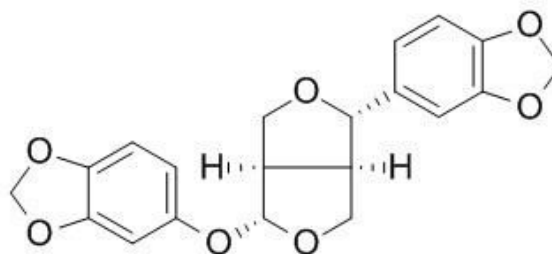


Sesamolin Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Sesamolin**Catalog No.:** CFN99799**Cas No.:** 526-07-8**Purity:** > 98%**M.F:** C₂₀H₁₈O₇**M.W:** 370.36**Physical Description:** White powder**Synonyms:** 5-[[[(3S,3aR,6R,6aR)-3-(1,3-benzodioxol-5-yl)-1,3,3a,4,6,6a-hexahydrofuro[3,4-c]furan-6-yl]oxy]-1,3-benzodioxole.**[Intended Use]**

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

[Source]The herbs of *Justicia orbiculata*.

[Biological Activity or Inhibitors]

Sesaminol possesses antioxidative activity, can inhibit lipid peroxidation in rat liver and kidney.^[1]

Sesamol has protective effect on hypoxic neuronal and PC12 cells, it may be related to suppression of ROS generation and MAPK activation.^[2]

Sesamol can inhibit proliferation by inducing apoptosis in human lymphoid leukemia Molt 4B cells. ^[3]

Sesamol has protective effects on murine BV-2 microglia cell line under hypoxia, the mechanism involves inhibition of MAPK pathways and apoptosis through scavenging of ROS in hypoxia-stressed BV-2 cells.^[4]

Sesamol exerts effective neuroprotection against cerebral ischemia.^[5]

[Solvent]

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

[HPLC Method]^[6]

Mobile phase: Methanol-H₂O, gradient elution ;

Flow rate: 0.8 ml/min;

Column temperature: 30 °C;

The wave length of determination: 287 nm.

[Storage]

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

[References]

[1] Kang M H, Naito M, Tsujihara N, *et al. J. Nutr.*, 1998, 128(6):1018-22.

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[3] Miyahara Y, Hibasami H, Katsuzaki H, *et al. Int. J. Mol. Med.*, 2001, 7(7):369-71.

[4] Hou C W, Wu C C, Yang C H, *et al. Neurosci. Lett.*, 2004, 367(1):10-3.

[5] Cheng F C, Jinn T R, Hou R C W, *et al. Int. J. Biomed. Sci. Ljbs*, 2006, 2(3):284-8.

[6] Huang J. *Journal of the Chinese Cereals & Oils Association*, 2011, 26(01):120-3.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com