

Sesamol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Sesamol

Catalog No.: CFN90452

Cas No.: 533-31-3

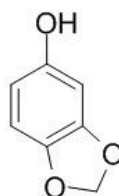
Purity: >=99%

M.F: C₇H₆O₃

M.W: 138.12

Physical Description: Cryst.

Synonyms: 5-Hydroxy-1,3-Benzodioxole; 5-Benzodioxolol; 3,4-Methylenedioxyphenol; 1,3-Benzodioxol-5-ol.



[Intended Use]

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

[Source]

The seeds of *Sesamum indicum*.

[Biological Activity or Inhibitors]

Sesamol is a known natural dietary components with intrinsic cancer chemopreventive potentials via anti-oxidant capabilities, it shows a profound inhibitory effect on the Epstein-Barr virus early antigen induction using Raji cells.^[1]

Chronic treatment with sesamol (2, 4 and 8 mg/kg; p.o.) can significantly and dose-dependently attenuate cognitive deficit, reduced acetylcholinesterase, oxidative stress and inflammation in diabetic rats; the results emphasize the involvement of oxidative stress and inflammation in the development of cognitive impairment in diabetic animals and point towards the therapeutic potential of sesamol in diabetes-associated cognitive decline.^[2]

Sesamol may delay mortality and attenuate oxidative stress-associated liver injury by inhibiting the production of nitric oxide, at least partially, in septic rats. ^[3]

Sesamol has radioprotective effect on gamma-radiation induced DNA damage, lipid peroxidation and antioxidants levels in cultured human lymphocytes.^[4]

Sesamol exhibits antimutagenic activity against oxygen species mediated mutagenicity.^[5]

Sesamol has reno-protective effects in ferric nitrilotriacetate-induced oxidative renal injury in rats.^[6]

[Solvent]

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

[HPLC Method]^[7]

Mobile phase: n-Hexane- Chloroform =80:20 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 280 nm.

[Storage]

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

[References]

- [1] Kapadia G J, Azuine M A, Tokuda H, *et al. Pharmacol. Res.*, 2002, 45(6):499-505.
- [2] Kuhad A, Chopra K. *Exp. Brain Res.*, 2008, 185(3):411-20.
- [3] Hsu D Z, Chen K T, Li Y H, *et al. Shock*, 2006, 25(5):528-32.
- [4] Prasad N R, Menon V P, Vasudev V, *et al. Toxicology*, 2005, 209(3):225-35.
- [5] Kaur I P, Saini A. *Mutation Research/fundamental & Molecular Mechanisms of Mutagenesis*, 2000, 470(470):71-6.
- [6] Gupta A, Sharma S, Kaur I, *et al. Basic Clin.Pharmacol.* , 2009, 104(4):316-21.
- [7] Yoshida M, Kashimoto T. *Journal of the Food Hygienic Society of Japan*, 1982, 23(2):142-8.

[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