

(-)-Asarinin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: (-)-Asarinin

Catalog No.: CFN90144

Cas No.: 133-04-0

Purity: >=98%

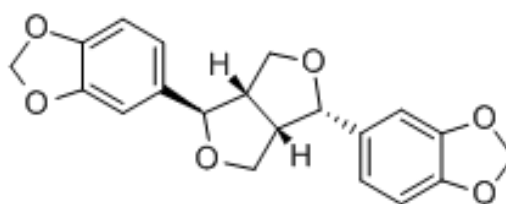
M.F: C₂₀H₁₈O₆

M.W: 354.35

Physical Description: Cryst.

Synonyms: (-)-5,5'-[(1R,3a α ,4S,6a α)-Tetrahydro-1H,3H-furo[3,4-c]furan-1,4-diyl]

bis[1,3-benzodioxole];(-)-Sesamine; Asarinin; Epi-Sesamine.



[Intended Use]

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

[Source]

The herbs of *Asarum sieboldii* Miq.

[Biological Activity or Inhibitors]

(-)-Asarinin and (-)-epiasarinin are non-competitive inhibitors against the $\Delta 5$ -desaturase in rat liver microsomes, the K_{is} for rat liver $\Delta 5$ -desaturase being 2.8×10^{-4} and 7.1×10^{-4} M, respectively.^[1]

Asarinin is a mammalian lignan precursor.^[2]

Asarinin has immunosuppression activity in vitro. ^[3]

Asarinin can decrease peripheral blood concentration of interleukin (IL)-12 and inhibit the expression of Toll-like receptor 4 (TLR4) and chemokine (C-X-C motif) receptor 3 (CXCR3), which means asarinin may have a role on TLR4 pathway and produced prolongation of allograft heart survival.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile-Methanol=85:15 ;

Flow rate: 0.9 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 286 nm.

[Storage]

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

[References]

[1] Shimizu S, Kawashima H, Akimoto K, *et al. Phytochemistry*, 1992, 31(3):757-60.

[2] Jin J S, Hattori M. *Food Chem.*, 2011, 124(3):895-9.

[3] Zhang L, Guan Z, Zhang J. *Chinese Journal of Cardiology*, 2003, 31(6):444-7.

[4] Gu J, Zhang L, Wang Z, *et al. Transpl. P.*, 2015, 47(2):545-8.

[5] Gao S, Li Z X, Wang Z T, *et al. Chinese Traditional Patent Medicine*, 2014, 36(3):541-7.

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