

# beta-Asarone Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

Name: beta-Asarone

Catalog No.: CFN98870

Cas No.: 5273-86-9

**Purity:** > 95%

M.F: C<sub>12</sub>H<sub>16</sub>O<sub>3</sub>

M.W: 208.3

Physical Description: Oil

Synonyms:(Z)-1,2,4-Trimethoxy-5-(1-propenyl)benzene;1,2,4-Trimethoxy-5-[(1Z)-1-prop

en-1-yl]benzol.

## [ 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]

beta-Asarone has neuroprotection, it can afford a beneficial inhibition on both mRNA and

protein expression of Bad, Bax, and cleavage of caspases 9 in rat hippocampus following

intrahippocampal injections of Abeta (1-42), it may be a potential candidate for

development as a therapeutic agent for Alzheimer's disease.[1]

beta-Asarone has anthelmintic activity using contractility of Ascaridia galli., it shows potent

activity with IC<sub>50</sub> values of 75.4 +/- 61.8 ng/mL.<sup>[2]</sup>

beta-Asarone has anticoagulant effect in the mouse and the rat. [3]

beta Asarone can cause liver and cardiac damages, it also has reproductive toxicity, beta

asarone administered at a dose of 50mg/kg b.wt. is capable enough in bringing about

moderate amount of degenerative changes in rat testis and altered antioxidant status.[4]

beta-Asarone can inhibit colon cancer formation in vivo and in vitro by inducing

senescence, since beta-asarone induces lamin B1 expression, a model is proposed in

which beta-asarone inhibits colorectal cancer by inducing senescence through lamin B1.<sup>[5]</sup>

[Solvent]

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

[ HPLC Method ]<sup>[6]</sup>

Mobile phase: Acetonitrile- H2O=48:52;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 303 nm.

[Storage]

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

[References]

[1] Liu J, Li C, Xing G, et al. Yakugaku zasshi., 2010, 130(5):737-46.

- [2] Kumar R, Prakash O, Pant A K, et al. Nat. Prod. Commun., 2009, 4(2):275-8.
- [3] Rubio-Póo C, Lemini C, García-Mondragón J, et al. Proc. West. Pharmacol. Soc., 1991,34:107-12.
- [4] Benny B, George P D C, Thirumal K D, et al. Life Sci., 2016, S0024-3205(16) 30492-1.
- [5] Liu L, Wang J, Shi L, et al. Phytomedicine, 2013, 20(6):512-20.
- [6] Chen C, Spriano, D, Meier, B. Planta Med., 2009, 75(13):1448-52.

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