

epsilon-Viniferin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: epsilon-Viniferin

Catalog No.: CFN97067

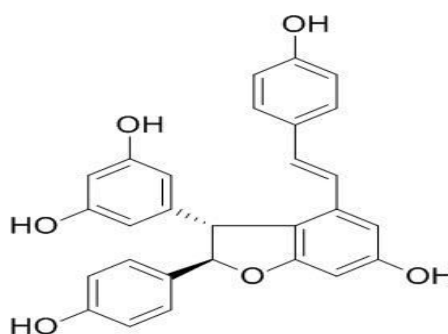
Cas No.: 62218-08-0

Purity: > 95%

M.F: C₂₈H₂₂O₆

M.W: 454.5

Physical Description: Powder



Synonyms: (-)-5-[[[(2R)-2,3-Dihydro-6-hydroxy-2β-(4-hydroxyphenyl)-4-[(E)-2-(4-hydroxyphenyl)vinyl]benzofuran]-3α-yl]-1,3-benzenediol; e-viniferin.

[Intended Use]

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

[Source]

The stem of *Gnetum montanum* Markgr.

[Biological Activity or Inhibitors]

Epsilon-viniferin exhibits good antioxidant capacity in the DMSO/O(-)(2) polar system ($IC_{50} = 0.14 \text{ mM}$).^[1]

(-)-Trans-epsilon-viniferin is an inhibitor of noradrenaline and 5-hydroxytryptamine uptake and of monoamine oxidase activity, it may be of value as a structural template for the design and development of new antidepressant drugs.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetic acid in water (pH=2.4)- 20% Acetic acid in acetonitrile, gradient elution;

Flow rate: 0.5 ml/min;

Column temperature: 30°C;

The wave length of determination: 306 nm.

[Storage]

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

[References]

[1] Privat C, Telo J P, Bernardesgenisson V, *et al. J. Agric. Food Chem.*, 2002, 50(5): 1213-7.

[2] Yanez M, Fraiz N E, Orallo F. *Eur. J. Pharmacol.*, 2006 Aug 7; 542(1-3): 54-60.

[3] Vitrac X, Bornet A, Vanderlinde R, *et al. J. Agric. Food Chem.*, 2005, 53(14): 5664-9.

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