

Echinatin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Echinatin

Catalog No.: CFN99520

Cas No.: 34221-41-5

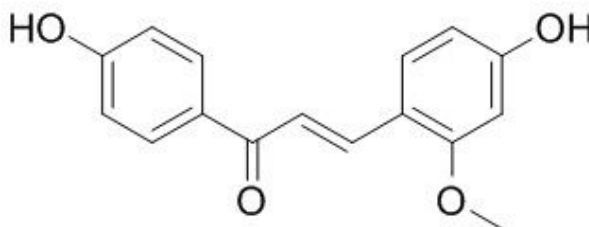
Purity: > 98%

M.F: C₁₆H₁₄O₄

M.W: 270.28

Physical Description: White powder

Synonyms: (E)-3-(4-hydroxy-2-methoxyphenyl)-1-(4-hydroxyphenyl)-2-propen-1-one.



[Intended Use]

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

[Source]

The root of *Glycyrrhiza glabra* L.

[Biological Activity or Inhibitors]

Echinatin has significant antioxidant activities, it shows strong scavenging activity toward the ABTS⁺ radical, it also dose-dependently inhibits LPS induced reactive oxygen species (ROS) production in RAW 264.7 cells and inhibits the production of nitric oxide (NO), interleukin-6 (IL-6) and prostaglandin E2 (PGE2) in LPS-induced macrophage cells. ^[1,2]

[Solvent]

Chloroform, Dichloromethane, DMSO, Acetone, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile-0.05% Aqueous phosphoric acid, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 276 nm.

[Storage]

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

[References]

[1] Luo L P, Li Y J, Hui Z, *et al. Chinese Journal of New Drugs*, 2013, 22(21):2547-52.

[2] Fu Y, Chen J, Li Y J, *et al. Food Chem.*, 2013, 141(2):1063-71.

[3] Zhang Y B, Xu W, Yang X W, *et al. Chinese Journal of Pharmaceutical Analysis*, 2013, (33)2:214-9.

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