

Agrimolide Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Agrimolide

Catalog No.: CFN98073

Cas No.: 21499-24-1

Purity: > 98%

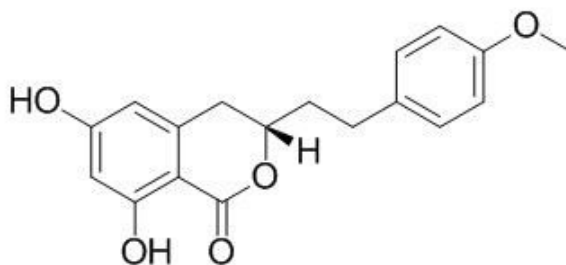
M.F: C₁₈H₁₈O₅

M.W: 314.3

Physical Description: Powder

Synonyms:

(3S)-6,8-dihydroxy-3-[2-(4-methoxyphenyl)ethyl]-3,4-dihydro-1H-2-benzopyran-1-one.



[Intended Use]

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

[Source]

The herb of *Agrimonia pilosa Ledeb.*

[Biological Activity or Inhibitors]

Agrimolide from *Agrimonia pilosa*, exerts anti-inflammatory activity, at least in part, via suppressing LPS-induced activation of JAK-STATs and p38 MAPKs signaling pathway; it can suppress inflammatory responses through down-regulation of COX-2/iNOS and inactivation of NF- κ B in lipopolysaccharide-stimulated macrophages.^[1]

Agrimolide is a potential α_1 adrenergic receptor antagonist.^[2]

Agrimolide and desmethylagrimolide can effectively increase insulin-mediated glycogen level in hepatocytes, significantly elevate hepatic glucokinase (GK) activity, they cause a significant reduction of glucose-6-phosphatase (G6Pase) activity compared to the control and a significant change in Phosphoenolpyruvate carboxykinase (PEPCK) activity, they may play an important role in regulating glucose metabolism in insulin-resistance HepG2 cells and could be developed as a promising natural material for diabetes prevention and treatment.^[3]

[Solvent]

Chloroform, Dichloromethane, Diethyl ether, DMSO, Acetone, etc.

[HPLC Method]^[4]

Mobile phase: Acetonitrile-1%Phosphoric acid H₂O, gradient elution;

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] Chen L, Teng H, Fang T, *et al. Phytomedicine International Journal of Phytotherapy &*

Phytopharmacology, 2016, 23(8):846-55.

[2] Han S, Zhang P, Wei F, *et al. Anal. Methods.*, 2012, 4(10):3351-7.

[3] Teng H, Chen L, Song H. *Food Funct.*, 2016,6,22.

[4] Wu L H, Wu W H, Wang Y, *et al. Chinese Medical Science and Technology*, 2004, 11 (6):
359-61.

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