



20-Hydroxyecdysone Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 20-Hydroxyecdysone

Catalog No.: CFN98873

Cas No.: 5289-74-7

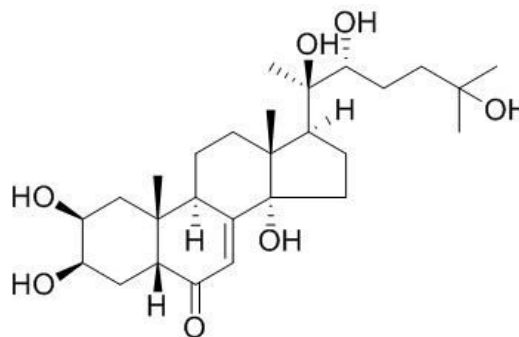
Purity: > 98%

M.F: C₂₇H₄₄O₇

M.W: 480.6

Physical Description: Powder

Synonyms: β-Ecdysone, 2β,3β,14α,20β,22,25-Hexahydroxy-7-cholesten-6-one.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Care and daily chemicals;
7. Intermediates & Fine Chemicals;
8. Ingredient in supplements, beverages;
9. Dairy products;
10. Others.

[Source]

The herb of *Cyanotis arachnoides* C. B. Clarke.

[Biological Activity or Inhibitors]

20-Hydroxyecdysone slowly reduces food consumption and then indirectly induces a state of starvation resulting in the elevation of the mRNA levels of InR , IRS , PI3K110 , and PDK in the Bombyx fat body during molting and pupation, and 20-hydroxyecdysone inhibits innate immunity in the fat body during Bombyx postembryonic development.^[1,2]

20-Hydroxyecdysone acts as both a positive and a negative regulator of EDG transcription, sequences in the promoter regions of two of the EDGs are similar to an ecdysone response element and may play a role in negative regulation.^[3]

20-Hydroxyecdysone can block TORC1 activity for autophagosome initiation, and upregulates Atg genes to induce autophagy in the Bombyx fat body.^[4]

[Solvent]

Chloroform, Dichloromethane, DMSO, Acetone.

[HPLC Method]^[5]

Mobile phase: Acetonitrile-H₂O=18:82 ;

Flow rate: 1.0 ml/min;

Column temperature: Room temperature ;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Ling T, Guo E, Diao Y, *et al. BMC Genomics*, 2010, 11(1):1-12.

[2] Yan L, Zhou S, Li M, *et al. J. Insect. Physiol.*, 2010, 56(10):1436-44.

[3] Apple R T, Fristrom J W. *Dev. Biol.*, 1991, 146(2):569-82.

[4] Tian L, Ma L, Guo E, *et al. Autophagy*, 2013, 9(8):1172-87.

[5] Kim J H, Kim J M, Kang D H. *ResearchGate*, 2008, 23(1).

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