

Selinidin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Selinidin

Catalog No.: CFN90570

Cas No.: 19427-82-8

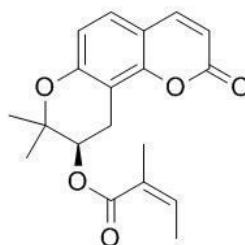
Purity: >=98%

M.F: C₁₉H₂₀O₅

M.W: 328.36

Physical Description: Powder

Synonyms: (9R)-8,8-Dimethyl-2-oxo-9,10-dihydro-2H,8H-pyrano[2,3-f]chromen-9-yl
(2Z)-2-methylbut-2-enoate.



[Intended Use]

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

[Source]

The herbs of *Peucedanum harry-smithii* var. *subglabrum*.

[Biological Activity or Inhibitors]

Selinidin, one of the coumarin derivatives isolated from *Angelica keiskei*, attenuates mast cell degranulation following engagement of the high-affinity receptor for IgE (Fc epsilonRI) with IgE and antigen, it suppresses IgE-mediated mast cell activation by inhibiting multiple steps of FcepsilonRI-dependent signaling pathways and would be beneficial for the prevention of allergic inflammation.^[1]

(-)-Selinidin shows strong antiplatelet aggregation activity in vitro.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Methanol -H₂O, gradient elution ;

Flow rate: 0.8 ml/min;

Column temperature: 30 °C;

The wave length of determination: 323 nm.

[Storage]

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

[References]

[1] Kishiro S, Nunomura S, Nagai H, *et al. Biol. Pharm. Bull.*, 2008, 31(3):442-8.

[2] Chen I S, Chang C T, Sheen W S, *et al. Phytochemistry*, 1996, 41(2):525-30.

[3] Chen E L, Liu XH, Li W, *et al. Chinese Journal of Analytical Chemistry*, 2009, 37(8): 1227-31.

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