

Aconine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Aconine

Catalog No.: CFN90248

CAS No.: 509-20-6

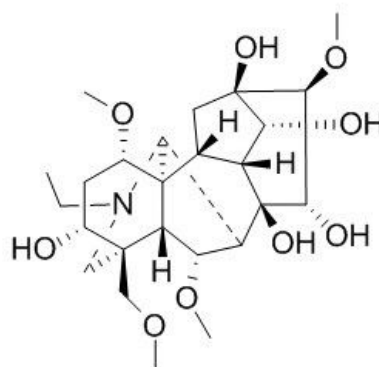
Purity: 98%

M.F: C₂₅H₄₁NO₉

M.W: 499.60

Physical Description: Powder

Synonyms: Jesaconine.



[Intended Use]

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

[Source]

The branch root of *Aconitum carmichaeli* Debx.

[Biological Activity or Inhibitors]

Aconine can inhibit RANKL-induced osteoclast differentiation in RAW264.7 cells by suppressing NF- κ B and NFATc1 activation and DC-STAMP expression.^[1]

Aconine has GW26-e4470 effect on the expression of Sirt-1 and eNOS system in EAhy926 cell injured by Homocysteine.^[2]

Aconine can attenuate hepatic fat degeneration of rats with fatty liver induced by high-fat diet through decreasing TG,TC deposit in liver.^[3]

[Solvent]

Pyridine, DMSO, Methanol.

[HPLC Method]^[4]

Mobile phase: Acetonitrile -5 mM Ammonium acetate H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 235nm.

[Storage]

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

[References]

[1] Zeng X Z, He L G, Wang S, *et al. Acta Pharmacol. Sin.*, 2015, 37(2):255-63.

[2] Liu Y, Zheng Z, Zhou B, *et al. J. Am. Coll. Cardiol.*, 2015, 66(16):C92-3.

[3] Shou Z X, Fan H. *Journal of Shandong University of Traditional Chinese Medicine*, 2008, 32(2):166-8.

[4] Liu M, Zhang H, Cai Y M, *et al. Journal of Pharmaceutical Practice*, 2013, 31(3):181-4.

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