

Benzoylmesaconine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Benzoylmesaconine

Catalog No.: CFN98575

CAS No.: 63238-67-5

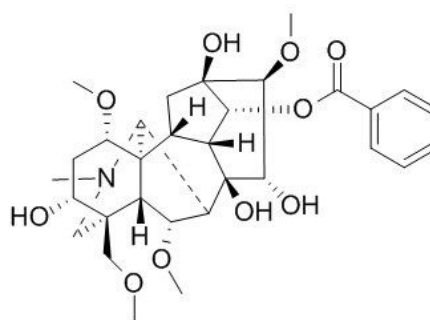
Purity: 98%

M.F: C₃₁H₄₃NO₁₀

M.W: 589.68

Physical Description: Powder

Synonyms: (1 α ,3 α ,6 α ,10 α ,13 α ,14 α ,15 α ,16 β ,17 ξ)-3,8,13,15-tetrahydroxy-1,6,16-trimethoxy-4-(methoxymethyl)-20-methylnaconitan-14-yl benzoate.



[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]

Benzoylmesaconine (BEN, an aconitine derivative extracted from heated-Aconiti tuber) induces the generation of CD4⁺ T cells antagonistic to type 2 T cells (BEN-CD4⁺ T cells), the combination therapy of IL-12 (an inducer of type 1 T cell responses) and BEN (an inhibitor of type 2 T cell responses) may protect TI-mice from severe HSV-1 infection.

Benzoylmesaconine has antinociceptive effects.^[1]

Benzoylmesaconine has inhibition effects on opportunistic herpesvirus infections in mice with acquired immunodeficiency syndrome.^[2]

[Solvent]

Pyridine, DMSO, Methanol.

[HPLC Method]^[3]

Mobile phase: 0.04 M Triethylamine(adjust pH to 3 with H₃PO₄) Methanol=54.5:45.5;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 235 nm.

[Storage]

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

[References]

[1] Kobayashi M, Takahashi H, Herndon D N, *et al. Burns*, 2003, 29(1):37-42.

[2] Suzuki Y, Oyama T, Ishige A, *et al. Planta Med.*, 1994, 60(5):391-4.

[3] Ball Ma, Kobayashi, Polland R B, *et al. J. Immunother.*, 1995, 17(2):127.

[4] Nie J, Zhang L, Tian S. *China Pharmacist*, 2003, 6(01):38-9.

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