



Dehydrocorydaline nitrate Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Dehydrocorydaline nitrate

Catalog No.: CFN90604

Cas No.: 13005-09-9

Purity: > 98%

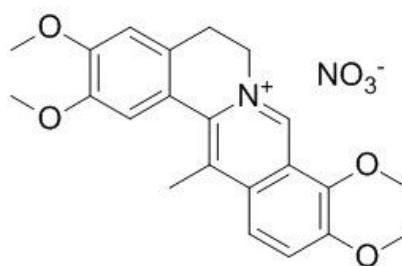
M.F: C₂₂H₂₄NO₄.NO₃

M.W: 428.44

Physical Description: Powder

Synonyms:

5,6-Dihydro-2,3,9,10-tetramethoxy-13-methyldibenzo[a,g]quinolizinium nitrate.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

[Source]

The tubers of *Corydalis yanhusuo*.

[Biological Activity or Inhibitors]

Dehydrocorydaline(DHC) , an alkaloidal component isolated from Corydalis Tuber (tuber of *Corydalis turtschaninovii* forma *yanhusuo*), it not only inhibits antibody-mediated allergic reactions but also influences cell-mediated allergic reactions, and the inhibitory effect of Corydalis Tuber on allergic reactions may be partially attributed to DHC.^[1]

Dehydrocorydaline can inhibit elevated mitochondrial membrane potential in lipopolysaccharide-stimulated macrophages.^[2]

Dehydrocorydaline has antinociceptive effects in mouse models of inflammatory pain, the effects involve the opioid receptor and inflammatory cytokines.^[3]

Dehydrocorydaline has anti-inflammatory activity.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile: 0.2% Acetic acid H₂O=18:82;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 340 nm.

[Storage]

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

[References]

[1] Matsuda H, Tokuoka K, Wu J, *et al. Biol.Pharm. Bull.*, 1997, 20(4):431-4.

- [2] Ishiguro K, Ando T, Maeda O, *et al. Int. Immunopharmacol.*, 2011, 11(9):1362-7.
- [3] Yin Z Y, Li L, Chu S S, *et al. Sci. Rep.-UK*, 2016, 6,27129.
- [4] Matsuda H, Tokuoka K, Wi J, *et al. Nat. Med.*, 1997, 51:293-7.
- [5] Chen F Y, Ye Y P, Li X Y, *et al. Chinese Journal of Modern Applied Pharmacy*, 2009 (1):58-60.

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