

Coptisine chloride Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Coptisine chloride

Catalog No.: CFN99564

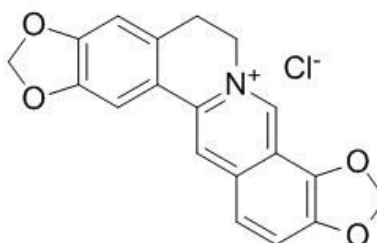
Cas No.: 6020-18-4

Purity: >=98%

M.F: C₁₉H₁₄NO₄Cl

M.W: 355.77

Physical Description: Powder



Synonyms: 7,8,13,13a-Tetradehydro-2,3:9,10-bis(methylenedioxy)berbinium-chloride;

6,7-dihydro[1,3]dioxolo[4,5-g][1,3]dioxolo[7,8]isoquino[3,2-a]isoquinolin-5-ium-chloride;

7,12b-dihydro-6H-[1,3]dioxolo[4,5-g][1,3]dioxolo[7,8]isoquino[3,2-a]isoquinoline.

[Intended Use]

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

[Source]

The herbs of *Chelidonium majus* L.

[Biological Activity or Inhibitors]

Coptisine is an isoquinoline alkaloid isolated from *Coptidis Rhizoma*, it exerts pronounced cardioprotection in rats subjected to myocardial I/R likely through suppressing myocardial apoptosis and inflammation by inhibiting the Rho/ROCK pathway, suggests that it protects rat heart against myocardial ischemia/reperfusion injury by suppressing myocardial apoptosis and inflammation. ^[1]

[Solvent]

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

[HPLC Method]^[2]

Mobile phase: Acetonitrile-0.05 M KH₂PO₄(pH=3.0 with H₃PO₄),gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 270 nm.

[Storage]

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

[References]

[1] Guo J, Wang S B, Yuan T Y, *et al. Atherosclerosis*, 2013, 231(2):384-91.

[2] Huang X P, Li L Y, Qu X Y, *et al. Journal of Chinese Medicinal Materials*, 2006, 29(7):666-9.

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