[ Product Information ]

Name: Palmatine hydrochloride
Catalog No.: CFN99124
Cas No.: 10605-02-4
Purity: > 98%
M.F: C_{21}H_{22}ClNO_{4}
M.W: 387.86

Physical Description: White powder

Synonyms: Berbericinine; Hindarine; Gindarine;
7,8,13,13a-Tetradehydro-2,3,9,10-tetrahydroxyberbinium;
2,3,9,10-Tetramethoxy-5,6-dihydroisoquinolino[2,1-b]isoquinolino-7-ium chloride.

[ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Care and daily chemicals;
7. Intermediates & Fine Chemicals;
8. Ingredient in supplements;
[**Source**]

The rhizomes of *Coptis chinensis* Franch.

[**Biological Activity or Inhibitors**]

Palmatine hydrochloride (PaH), a naturally occurring photosensitizer isolated from traditional Chinese medicine (TCM), can induce remarkable cell apoptosis, significantly increase intracellular ROS level and significantly kill breast cancer MCF-7 cells; it also has potential in photodynamic therapy on colon adenocarcinoma.[1,2]

Palmatine Hydrochloride has anti-*C. albicans* effect, the effect is mainly influenced by the growth rate constant (k(2)) and maximum power output P(m)(2) of phase II; it mixes with berberine hydrochloride elicit antifungal activities and could be used to treat *M. canis* in rabbits.[3,4]

The quenching mechanism of palmatine hydrochloride (PMT) on bovine hemoglobin (BHb) is a static process, the electrostatic force played an important role in the conjugation reaction between BHb and PMT.[5]

Palmatine Hydrochloride treatment can reduce blood sugar and oxidative stress in STZ induced diabetic rats.[6]

[**Solvent**]

Pyridine, DMSO, Ethanol, Methanol, Hot water.

[**HPLC Method**][7]

Mobile phase: Acetonitrile-0.1% Phosphoric acid H2O=53:47(0.4g dodecyl sodium sulfate added into 100 ml solution);
Flow rate: 1.0 ml/min;
Column temperature: Room Temperature;
The wave length of determination: 345 nm.
[Storage]
2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[Contact]
Address: S5-3 Building, No. 111, Dongfeng Rd., Wuhan Economic and Technological Development Zone, Wuhan, Hubei 430056, China
Email: info@chemfaces.com
Tel: +86-27-84237783
Fax: +86-27-84254680
Web: www.chemfaces.com
Tech Support: service@chemfaces.com