Natural Products

ChemFaces

Jatrorrhizine Hydrochloride Datasheet

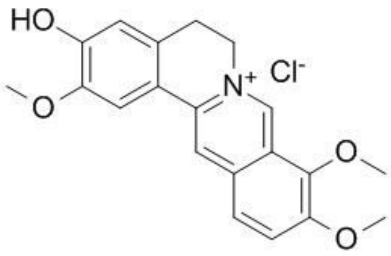
4th Edition (Revised in July, 2016)

[Product Information]

Name: Jatrorrhizine Hydrochloride

Catalog No.: CFN98108

Cas No.: 6681-15-8



Purity: >=98%

M.F: $C_{20}H_{20}ClNO_4$

M.W: 373.83

Physical Description: Powder

Synonyms:3-Hydroxy-2,9,10-trimethoxy-5,6-dihydro-isochino[3,2-a]isochinolinylium,Chlorid.

[Intended Use]

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

[Source]

The barks of *Phellodendron chinense Schneid.*

[Biological Activity or Inhibitors]

Jatrorrhizine hydrochloride can inhibit the proliferation and neovascularization of C8161 metastatic melanoma cells with low toxicity, suggests that jatrorrhizine hydrochloride is a potential new antimelanoma drug candidate.[1]

Jatrorrhizine hydrochloride exhibits a potent inhibitory effect toward neuraminidase of the H7N9 (N9) avian influenza virus, it also can potentiate the neuraminidase inhibitory effect of oseltamivir towards H7N9 influenza.[2]

Jatrorrhizine hydrochloride has lipid lowering effects, it can ameliorate hyperlipidemia via the suppression of lipogenesis and the enhancement of lipid oxidation in the liver. [3]

[Solvent]

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

[HPLC Method][4]

Mobile phase: Acetonitrile-H2O(0.34g potassium dihydrogen phosphate and 0.17 g sodium dodecyl sulfate per 100 mL)=45:55;

Flow rate: 1.0 ml/min;

Column temperature: 35 ℃;

The wave length of determination: 345 nm.

[Storage]

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

[References]

[1] Liu R, Cao Z, Pan Y, *et al. Anti-cancer Drug, 2013, 24(7):667-76.*

[2] Wang Y, Yu M, Wang X, *et al. Rsc Adv., 2015, 5(80):64937-43.*

[3] Yang W, She L, Yu K, *et al. Mol. Med. Rep., 2016, 14(4):3277-84.*

[4]FanX X, Wan L Y, Yuan L P, *et al. Chinese Pharmaceutical Journal, 2006, 41(12):942-4.*

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