

Protopine hydrochloride Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Protopine hydrochloride

Catalog No.: CFN98520

Cas No.: 6164-47-2

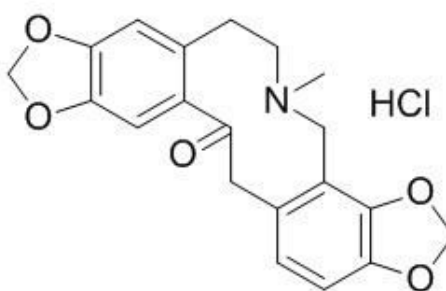
Purity: >=98%

M.F: C₂₀H₂₀ClNO₅

M.W: 389.83

Physical Description: Powder

Synonyms: 7-Methyl-6,8,9,16-tetrahydrobis[1,3]benzodioxolo[4,5-c:5',6'-g]azecin-15(7H)-one hydrochloride (1:1); Protopine, HCl.



[Intended Use]

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

[Source]

The herbs of *Galium aparine* L.

[Biological Activity or Inhibitors]

Protopine seems to inhibit the heterotypic cell adhesion between MDA-MB-231 cells, and human umbilical vein endothelial cells by changing the expression of adhesive factors.^[1]

Protopine has antiplatelet effects, which is due to inhibition on thromboxane formation and phosphoinositides breakdown and then lead to the decrease of intracellular calcium concentration.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Methanol-0.2% Phosphoric acid (adjusted to pH 7.0 with triethylamine)

=50:50 ;

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] He K, Gao J L. *Afr. J. Tradit. Complem.*, 2014, 11(2):415-24.

[2] Ko F N, Wu T S, Lu S T, *et al. Thrombosis Res.*, 1989, 56(2):289-98.

[3] Yan T Q, Yang Y F, Ai T M. *China Journal of Chinese Materia Medica*, 2004, 29(10): 961-3.

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