

## Rotundine Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Rotundine

**Catalog No.:** CFN99195

**Cas No.:** 10097-84-4

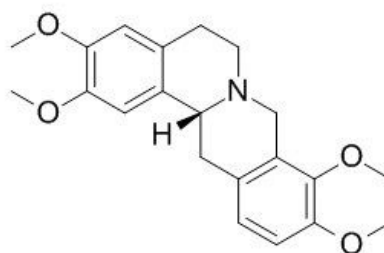
**Purity:** > 98%

**M.F:** C<sub>21</sub>H<sub>25</sub>NO<sub>4</sub>

**M.W:** 355.43

**Physical Description:** White powder

**Synonyms:** (13a*S*)-2,3,9,10-tetramethoxy-6,8,13,13a-tetrahydro-5*H*-isoquinolino[2,1-*b*]isoquinoline.



### [ Intended Use ]

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

### [ Source ]

The root of *Stephania tetrandra* S. Moore.

## **[ Biological Activity or Inhibitors ]**

Rotundine combined with methadone treatment may be a better therapeutic method in treatment of heroin dependence.<sup>[1]</sup>

Rhizoma Zingiberis(RZ), Flos Magnoliae(FM), and Fructus Litseae(FL), both have enhancing effect on Rotundine permeation.<sup>[2]</sup>

Rotundine injection can ameliorate the damages by modulating the activities of different types of NOS, and the various types of NOS play different roles in the lung damages after brain I/R injury at different stages in rats; rotundine provides remarkable protection against cerebral ischemia reperfusion damage, Its mechanisms may be through its influence on NO、ET 1 and energy metabolism.<sup>[3,4]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, Diethyl ether, DMSO, Acetone, etc.

## **[ HPLC Method ]<sup>[5]</sup>**

Mobile phase: Acetonitrile : Phosphate buffer(pH6.8) : Triethylamine =60:40:1;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 280 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Yong H U, Qiu Y, Zhong Y, *et al. Chinese Journal of Drug Abuse Prevention & Treatment*, 2006, 12(5):270-1.

[2] Cui L L, Ma Y S, Han H X. *Journal of Chinese Medicinal Materials*, 2011, 34(5):753-7.

[3] Zeng A Y, Tu E Y, Han Z Y, *et al. Metabolism*, 2007, 30(2):111-8.

[4] Tang Y, Yang G. *Journal of Emergency Medicine*, 2000, 9(6):379-81.

[5] Feng M X. *Chinese Journal of Pharmaceutical Analysis*, 2008, 28(7):1180-3.

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