

## Phellodendrine chloride Datasheet

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

### [ Product Information ]

**Name:** Phellodendrine chloride

**Catalog No.:** CFN99144

**Cas No.:** 104112-82-5

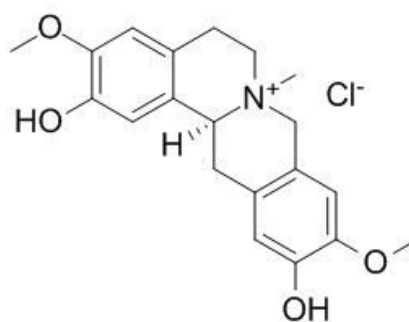
**Purity:** > 98%

**M.F:** C<sub>20</sub>H<sub>24</sub>NO<sub>4</sub>·Cl

**M.W:** 377.85

**Physical Description:** White cryst.

**Synonyms:** 3,10-Dimethoxy-7-methyl-6,8,13,13a-tetrahydro-5H-isoquinolino[2,1-b]isoquinolin-7-ium-2,11-diol chloride.



### [ Intended Use ]

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

### [ Source ]

The peel of *Phellodendron amurense* Rupr.

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

Phellodendrine has defensive effect against AAPH-induced oxidative stress through regulating the AKT/NF- $\kappa$ B pathway in zebrafish embryos.<sup>[1]</sup>

## **[ Solvent ]**

Pyridine, DMSO, Ethanol, Methanol, Hot water.

## **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase: Acetonitrile -0.1% Phosphoric acid H<sub>2</sub>O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 284 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Ling L, Tao H, Cheng T, *et al. Life Sci.*, 2016, 157:97-106.

[2] Jia Z, Wu J, Liu H Y, *et al. J. Int. Pharm. Res.*, 2015,42(4):519-23 .

## **[ Contact ]**

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