

# Glaucine Datasheet

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

## [ Product Information ]

**Name:** Glaucine

**Catalog No.:** CFN90408

**Cas No.:** 475-81-0

**Purity:** >=98%

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

**M.W:** 355.43

**Physical Description:** Powder

**Synonyms:**(-)-PareruptorinA;(+)-PraeruptorinA;

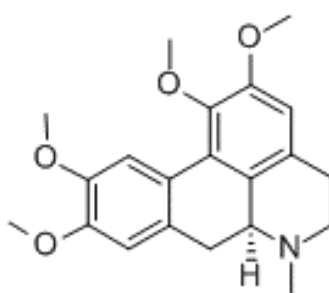
4H-Dibenzo[de,g]quinoline,5,6,6a,7-tetrahydro-1,2,9,10-tetramethoxy-6-methyl-, (6aS)-;

4H-Dibenzo[de,g]quinoline,5,6,6a,7-tetrahydro-1,2,9,10-tetramethoxy-6-methyl-, (S)-;

6aa-Aporphine,1,2,9,10-tetramethoxy- (8Cl);Glaucine (6Cl,7Cl);(+)-Glaucine;

(S)-Glaucine;Boldine dimethyl ether;Bromcholitine;Glauvent;N,O,O'-Trimethylaurelliptine;

O,O-Dimethylboldine.



## [ Intended Use ]

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

## **[ Source ]**

The tubers of *Corydalis yanhusuo*.

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

Glaucine has bronchodilator and anti-inflammatory activities in human airway smooth muscle and polymorphonuclear leukocytes.<sup>[1]</sup>

Glaucine is used as antitussive, but also as recreational drug of abuse.<sup>[2]</sup>

Glaucine has antioxidative potential and antiviral activity. <sup>[3]</sup>

Glaucine has inhibitory effects on TPA-induced down regulation of gap junction function, relationships to intracellular peroxides, protein kinase C translocation, and connexin 43 phosphorylation.<sup>[4]</sup>

## **[ Solvent ]**

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

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

Mobile phase: Acetonitrile-0. 1M Ammonium acetate solution( added 0. 5 m L of glacial acetic acid per 1 L), gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 280 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Cortijo J, Villagrasa V, Pons R, *et al. Brit. J. Pharmacol.*, 1999, 127(7):1641-51.

[2] Meyer G M J, Meyer M R, Wink C S D, *et al. Biochem. Pharmacol.*, 2013, 86(10):

1497-506.

[3] Spasova M, Philipov S, Nikolaeva-Glomb L, *et al. Bioorg. Med. Chem.*, 2008, 16(15): 7457-61.

[4] Hu J, Speisky H, Cotgreave I A. *Biochem. Pharmacol.*, 1995, 50(10):1635-43.

[5] Yang M, Li C Feng W H, *et al. Chinese Journal of Experimental Traditional Medical Formulae*, 2016(6):22-5.

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