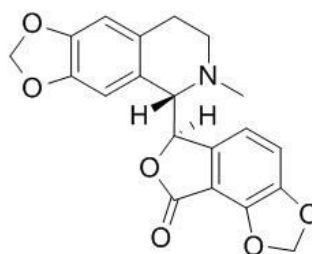


(+)-Bicuculline Datasheet4th Edition (Revised in July, 2016)**[Product Information]****Name:** (+)-Bicuculline**Catalog No.:** CFN99748**Cas No.:** 485-49-4**Purity:** >=98%**M.F:** C₂₀H₁₇NO₆**M.W:** 367.36**Physical Description:** White powder

Synonyms: (R-(R*,S*))-6-(5,6,7,8-Tetrahydro-6-methyl-1,3-dioxolo(4,5-g)isoquinolin-5-yl)-furo(3,4-e)-1,3-benzodioxol-8(6H)-one; (6R)-6-[(5S)-6-methyl-5,6,7,8-tetrahydro[1,3]dioxolo[4,5-g]isoquinolin-5-yl]furo[3,4-e][1,3]benzodioxol-8(6H)-one; 6-[(5S)-6-methyl-7,8-dihydro-5H-[1,3]dioxolo[4,5-g]isoquinolin-5-yl]-6H-furo[4,3-g][1,3]benzodioxol-8-one; (5S)-6-methyl-5-[(6R)-8-oxo-6,8-dihydrofuro[3,4-e][1,3]benzodioxol-6-yl]-5,6,7,8-tetrahydro[1,3]dioxolo[4,5-g]isoquinolin-6-ium.

[Intended Use]

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

[Source]

The tubers of *Corydalis ambigua*.

[Biological Activity or Inhibitors]

Bicuculline can induce convulsions, epileptogenesis, it is a drug that damages the nervous system, has neurotoxin.^[1,2]

Bicuculline is a GABA(A) receptor blocker, it can accelerate the growth curve.^[3]

(+/-)-Bicuculline is effective in vitro against spore germination of some plant pathogenic fungi (*Alternaria brassicicola*, *A. brassicae*, *A. cheiranthi*, *A. melongenae*, *A. solani*, *Colletotrichum musae*, *C. falcatum*, *Curvularia penniseti*, *C. lunata*, *C. maculans*, *C. pallescens*, *Curvularia sp.*, *Erysiphe pisi*, *E. cichoracearum*, *Erysiphe sp.*, *Fusarium udum*, *Helminthosporium spiciferum*, *H. penniseti*, *H. frumentacei*, *Heterosporium sp.*, *Oidium erysipoides* and *Ustilago cynodontis*), it can significantly inhibit spore germination of all the fungi at concentrations of 100-1000 ppm. ^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitril-Trifluoroacetic acid=24:76 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 225 nm.

[Storage]

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

[References]

- [1] D. Peričić, M. Bujas, K. Mirkovič, *et al. Exp. Brain Res.*, 1999, 129(3):451-6.
- [2] Hwa G G, Avoli M, Oliver A, *et al. Exp. Brain Res.*, 1991, 83(2):329-39.
- [3] Keen K L, Burich A J, Mitsushima D, *et al. Endocrinology*, 1999, 140(11):5257-66.
- [4] Basha S A, Mishra R K, Jha R N, *et al. Folia Microbiol.*, 2002, 47(2):161-5.
- [5] Huang Y, Li W L , Long H Y, *et al. Modern Chinese Medicine*, 2011,4.

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