

**Product Name:** (+)-Bicuculline

**Catalog No.:** 0130 **Batch No.:** 26

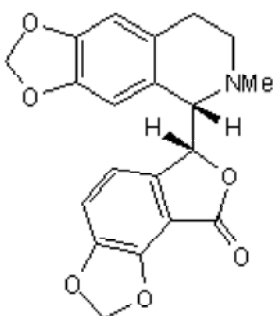
CAS Number: 485-49-4

EC Number: 207-619-7

IUPAC Name: [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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>20</sub>H<sub>17</sub>NO<sub>6</sub>  
**Batch Molecular Weight:** 367.36  
**Physical Appearance:** Pale yellow solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +140 (Concentration = 1, Solvent = Chloroform)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65.39	4.66	3.81
Found	65.21	4.63	3.75

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

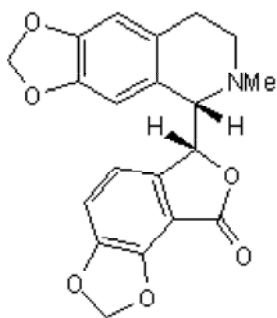
(+)-Bicuculline is a classical GABA<sub>A</sub> antagonist. Methiodide Salt, Methobromide Salt and Methochloride Salt also available.

**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>20</sub>H<sub>17</sub>NO<sub>6</sub>  
 Batch Molecular Weight: 367.36  
 Physical Appearance: Pale yellow solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
 CAUTION - Solutions formed with aqueous acid can undergo rapid hydrolysis and should be made up and used within 1 hour.

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Sieghart et al** (1989) Multiplicity of GABA<sub>A</sub>-benzodiazepine receptors. *TiPS* **10** 407. PMID: 2559519.  
**Piredda et al** (1985) Intracerebral site of convulsant action of bicuculline. *Life Sci.* **36** 1295. PMID: 3982215.  
**Olsen et al** (1976) Studies on the neuropharmacological activity of bicuculline and related compounds. *Brain Res.* **102** 283. PMID: 1247886.

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