

Product Name: (+)-Bicuculline

Catalog No.: 0130

Batch No.: 25

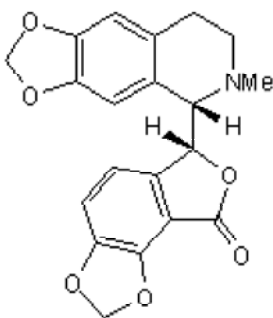
CAS Number: 485-49-4

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: C₂₀H₁₇NO₆
Batch Molecular Weight: 367.36
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +134 (Concentration = 1, Solvent = Chloroform)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.39	4.66	3.81
Found	65.4	4.75	3.88

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

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Description:

Classical GABA_A antagonist. Methiodide Salt, Methobromide Salt and Methochloride Salt also available.

Physical and Chemical Properties:

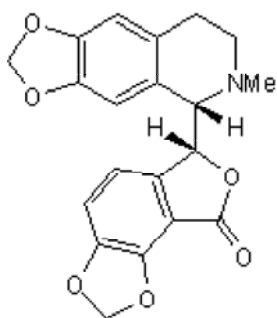
Batch Molecular Formula: C₂₀H₁₇NO₆

Batch Molecular Weight: 367.36

Physical Appearance: 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_A-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.

Curtis et al (1970) GABA, bicuculline and central inhibition. *Nature* **226** 1222. PMID: 4393081.

Merck Index **12** 1250.

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