Product Name: (+)-Bicuculline
CAS Number: 485-49-4
IUPAC Name: \([R-(R^*,S^*)]-6-(5,6,7,8\text{-Tetrahydro-6-methyl-1,3-dioxolo}[4,5-g]\text{-isoquinolin-5-yl}]\text{-furo}[3,4-e]-1,3\text{-benzodioxol-8(6H)-one}\)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \(C_{20}H_{17}NO_6\)
Batch Molecular Weight: 367.36
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

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

<table>
<thead>
<tr>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>65.39</td>
<td>4.66</td>
</tr>
<tr>
<td>Found</td>
<td>65.4</td>
<td>4.75</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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**Catalog No.:** 0130  
**Batch No.:** 25  
**EC Number:** 207-619-7

**Description:**  
Classical GABA<sub>A</sub> antagonist. Methoiodide Salt, Methobromide Salt and Methochloride Salt also available.

**Physical and Chemical Properties:**  
- **Batch Molecular Formula:** C<sub>26</sub>H<sub>17</sub>NO<sub>6</sub>  
- **Batch Molecular Weight:** 367.36  
- **Physical Appearance:** Yellow solid  
- **Minimum Purity:** >99%

**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:**  
Olsen et al. (1976) Studies on the neuropharmacological activity of bicuculline and related compounds. Brain Res. 102 283. PMID: 1247886.  
Merck Index 12 1250.