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Product Information

(-)-Bicuculline methiodide

Product Number **B 6889**

Storage Temperature 2-8 °C

Product Description

Molecular Formula: $C_{21}H_{20}INO_6$

Molecular Weight: 509.3

CAS Number: 55950-07-7

λ_{max} : 326 nm, 295 nm, and 243 nm

Bicuculline, an antagonist of GABA, has been used to study the effects on the inhibition of spinal neurones by amino acids.¹ This alkaloid is a reversible antagonist of the effects of GABA (Product Number A 2129), β -hydroxy-GABA (Product No. A 7254), muscimol (Product No. M 1523), β -aminovaleric acid (Product No. A 5800, A 4130), and imidazole-acetic acid (Product No. I 0375, I 0500).

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions

This product is dissolved at 20 mg/ml in water to yield a clear, colorless to light yellow-green solution.

Storage/Stability

Quaternary salts of bicuculline such as the quaternary methiodide form (Sigma Product Number B 6889) are less prone to hydrolysis than the parent molecule.²

References

1. Curtis, D.R. et al, Bicuculline, an antagonist of GABA and synaptic inhibition in the spinal cord of the cat.
2. Brain Res. **32**, 69-96 (1971).
3. Olsen, R.W., et al., Chemical instability of the GABA antagonist bicuculline under physiological conditions. Brain Res. **98**, 383-387 (1975).

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