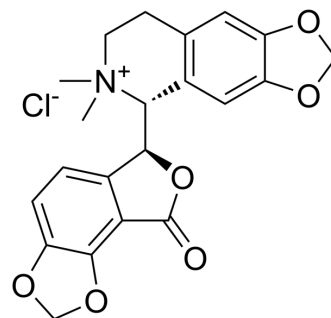


(-)-Bicuculline methochloride

Cat. No.:	HY-100783A
CAS No.:	53552-05-9
Molecular Formula:	C ₂₁ H ₂₀ ClNO ₆
Molecular Weight:	417.84
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(-)-Bicuculline methochloride (l-Bicuculline methochloride) is a potent GABA _A receptor antagonist. (-)-Bicuculline methochloride blocks afterhyperpolarizations (AHPs) mediated by Ca ²⁺ -activated K ⁺ channels in various types of neurons ^[1] .	
IC₅₀ & Target	GABA _A ^[1]	
In Vivo	(-)-Bicuculline methochloride (0.6 nmol/rat) attenuates the antiallodynic effect of Neurotropin ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Rat L5-SNL model ^[2]
	Dosage:	0.6 nmol/rat
	Administration:	Intrathecal injection, 5 minutes before administration of Neurotropin (100 NU/kg, i.v.)
	Result:	Attenuated the antiallodynic effect of Neurotropin.

REFERENCES

[1]. Seutin V, et al. Recent advances in the pharmacology of quaternary salts of bicuculline. Trends Pharmacol Sci. 1999 Jul;20(7):268-70.

[2]. Okazaki R, et al. The antiallodynic effect of Neurotropin is mediated via activation of descending pain inhibitory systems in rats with spinal nerve ligation. Anesth Analg. 2008 Sep;107(3):1064-9.

Caution: Product has not been fully validated for medical applications. For research use only.

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