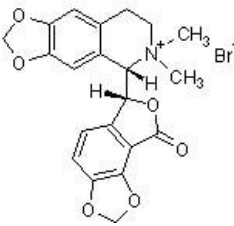


Product datasheet

(-)-Bicuculline methobromide, GABA_A antagonist
ab120109

11 References 2 Images

Overview

| | |
|---------------------------|------------------------------------------------------------------------------------|
| Product name | (-)-Bicuculline methobromide, GABA _A antagonist |
| Description | GABA _A antagonist |
| Purity | > 98% |
| CAS Number | 73604-30-5 |
| Chemical structure |  |

Properties

| | |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical name | [S-(R*,S*)]-5-(6,8-Dihydro-8-oxofuro[3,4-e]-1,3-benzodioxol-6-yl)-5,6,7,8-tetrahydro-6,6-dimethyl-1,3-dioxolo[4,5-g]isoquinolinium bromide |
| Molecular weight | 462.29 |
| Molecular formula | C ₂₁ H ₂₀ BrNO ₆ |
| PubChem identifier | 171729 |
| Storage instructions | Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months. |
| Solubility overview | Soluble in water to 100 mM |
| Handling | <p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Toxic, refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p> |

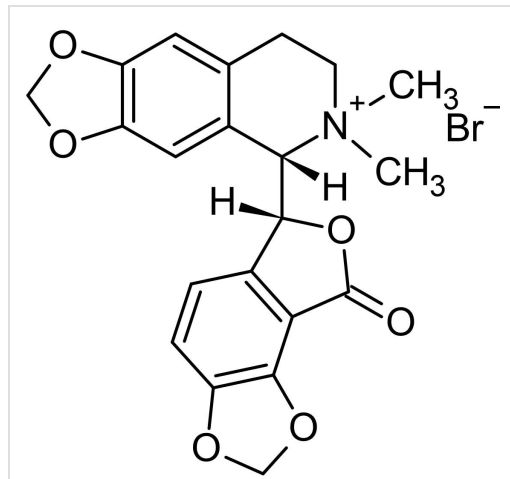
SMILES

C[N+](CCCC=CC3=C(C=C2C1C4C5=C(C6=C(C=C5)OCO6)C(=O)O4)OCO3)C.[Br-]

Source

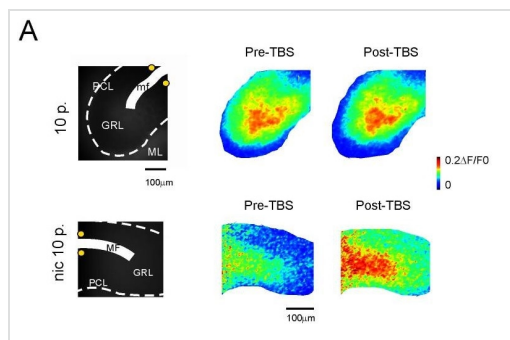
Synthetic

Images



2D chemical structure image of ab120109, (-)-Bicuculline methobromide, GABAA antagonist

Chemical Structure - (-)-Bicuculline methobromide, GABA_A antagonist (ab120109)



Functional Studies - (-)-Bicuculline methobromide, GABA_A antagonist (ab120109)

Prestori et al PLoS One. 2013 May 31;8(5):e64828. doi: 10.1371/journal.pone.0064828. Print 2013. Fig 5. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

Saturation of LTP by nicotine application.

VSD recordings were performed from the granular layer of cerebellar slices (pre-treated with 10 μM bicuculline methobromide) to measure the spatial organisation of the effect of nicotine following TBS.

(Panel A) Images of background epifluorescence in stained cerebellar slices show the granular layer (GRL), Purkinje cell layer (PCL), molecular layer (ML), mossy fibre bundle (mf), and position of the stimulating electrode (yellow dots). Coloured optical maps of granular layer activity evoked by a single mossy fibre pulse are compared before and after the induction of long-term synaptic plasticity by TBS.

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