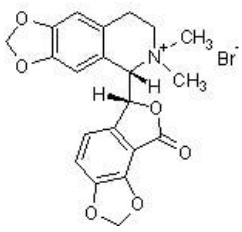
abcam

Product datasheet

(-)-Bicuculline methobromide, GABAA antagonist ab120109

11 References 2 Images

Overview

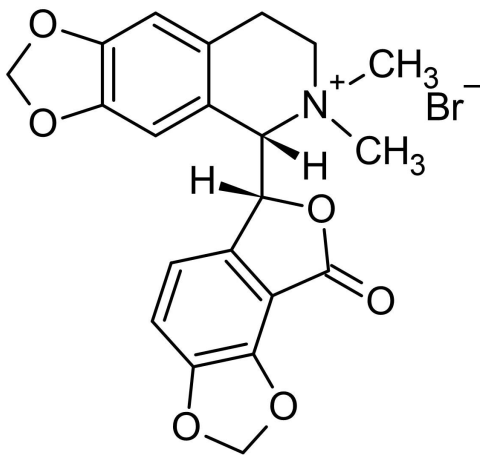
Product name	(-)-Bicuculline methobromide, GABAA antagonist
Description	$GABA_A$ antagonist
CAS Number	73604-30-5
Chemical structure	

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	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. Toxic, refer to SDS for further information. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
SMILES	C[N+]1(CCC2=CC3=C(C=C2C1C4C5=C(C6=C(C=C5)OCO6)C(=O)O4)OCO3)C.[Br-]

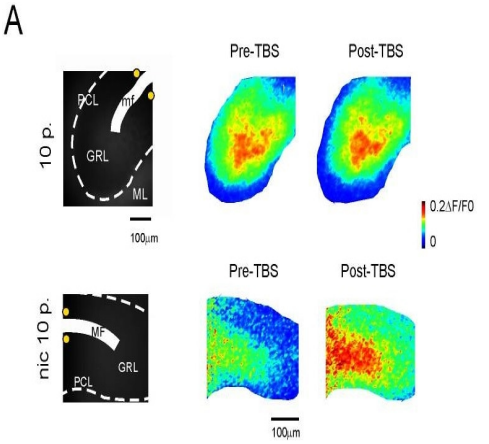
Source Synthetic

Images



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

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



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.

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

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