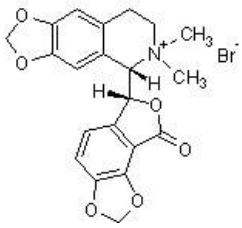
abcam

Product datasheet

(-)-Bicuculline methobromide, GABAA antagonist ab120109

11 References 画像数 2

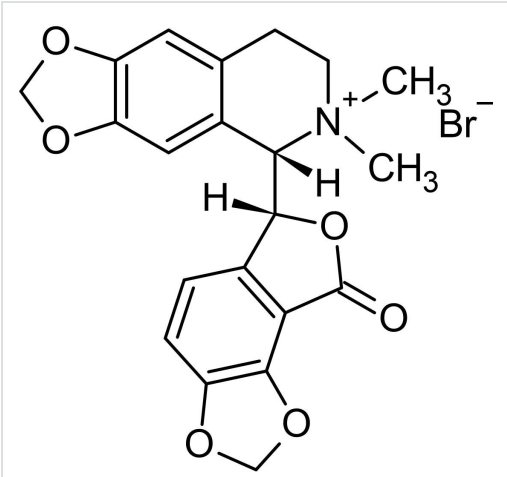
製品の概要

製品名	(-)-Bicuculline methobromide, GABAA antagonist
製品の詳細	$GABA_A$ antagonist
CAS 番号	73604-30-5
構造式	

製品の特性

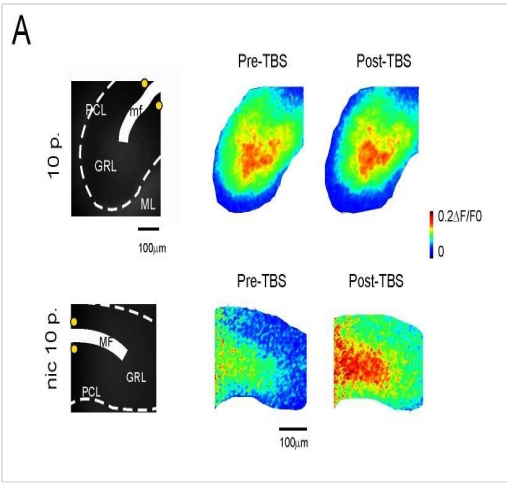
体系名	[*S*-(*R**,*S**)]-5-(6,8-Dihydro-8-oxofuro[3,4-*e*]-1,3-benzodioxol-6-yl)-5,6,7,8-tetrahydro-6,6-dimethyl-1,3-dioxolo[4,5-*g*]isoquinolinium bromide
分子量	462.29
分子式	$C_{21}H_{20}BrNO_6$
PubChem 登録番号	171729
保存方法	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解性	Soluble in water to 100 mM
使用に関する注意	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 線形表記	C[N+]1(CCC2=CC3=C(C=C2C1C4C5=C(C6=C(C=C5)OCO6)C(=O)O4)OCO3)C.[Br-]
由来	Synthetic

画像



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

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



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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