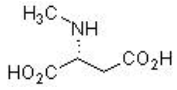
abcam

Product datasheet

NMDA, excitotoxic amino acid ab120052

17 References 3 图像

概述

产品名称	NMDA, excitotoxic amino acid
描述	Excitotoxic amino acid
生物学描述	Excitotoxic amino acid. Prototypic agonist at the ionotropic NMDA glutamate receptor which is involved in long-term potentiation, ischemia, and epilepsy. Also available in Kit: Ionotropic agonists (**ab120323**). Also available in simple stock solutions (**ab146698**) - add 1 ml of water to get an exact, ready-to-use concentration.
CAS编号	6384-92-5
化学结构	

性能

化学名称	(*R*)-2-(Methylamino)succinic acid
分子量	147.13
分子式	$C_5H_9NO_4$
PubChem识别号	22880
存放说明	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解度概述	Soluble in water to 100 mM
处理	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. 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	OC(=O)C[C@@H](NC)C(=O)O

来源 Synthetic

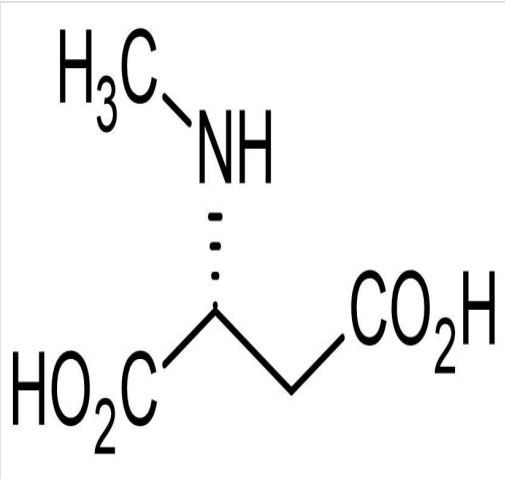
应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab120052**于以下的**经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

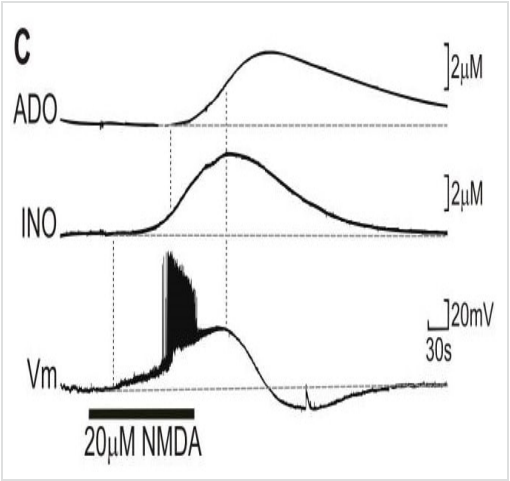
应用	Ab评论	说明
Functional Studies		Use at an assay dependent concentration.

图片



Chemical Structure - NMDA, excitotoxic amino acid (ab120052)

2D chemical structure image of ab120052, NMDA, excitotoxic amino acid

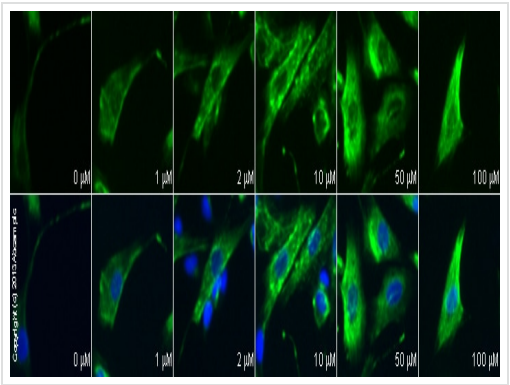


Functional Studies - NMDA, excitotoxic amino acid (ab120052)

Sims et al PLoS One. 2013;8(1):e53814. doi: 10.1371/journal.pone.0053814. Epub 2013 Jan 11. Fig 1. Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

Release of adenosine by depolarisation and agonists.

(Panel c) NMDA application also evoked neuronal depolarisation and firing accompanied by subsequent release of adenosine and inosine.



Immunocytochemistry/ Immunofluorescence - NMDA, excitotoxic amino acid (ab120052)

ab55051 staining GABA B receptor 1 in SK-N-SH cells treated with NMDA (ab120052), by ICC/IF. Internalization of GABA B receptor 1 correlates with increased concentration of NMDA, as described in literature.

The cells were incubated at 37°C for 30 minutes in media containing different concentrations of ab120052 (NMDA) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab55051** (1 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-mouse polyclonal antibody (**ab96879**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

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