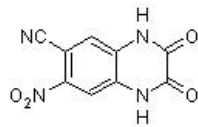


CNQX, AMPA / kainate antagonist ab120017

[71 References](#) [3 图像](#)

概述

产品名称	CNQX, AMPA / kainate拮抗剂
描述	AMPA / kainate拮抗剂
生物学描述	Potent, competitive AMPA / kainate receptor antagonist. Also antagonist at NMDA receptor glycine site.
CAS编号	115066-14-3
化学结构	



性能

化学名称	6-Cyano-7-nitroquinoxaline-2,3-dione
分子量	232.16
分子式	C ₉ H ₄ N ₄ O ₄
PubChem识别号	3721046
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 DMSO to 100 mM
处理	<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>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	[O-][N+](=O)c1cc2NC(=O)C(=O)Nc2cc1C#N
来源	Synthetic

应用

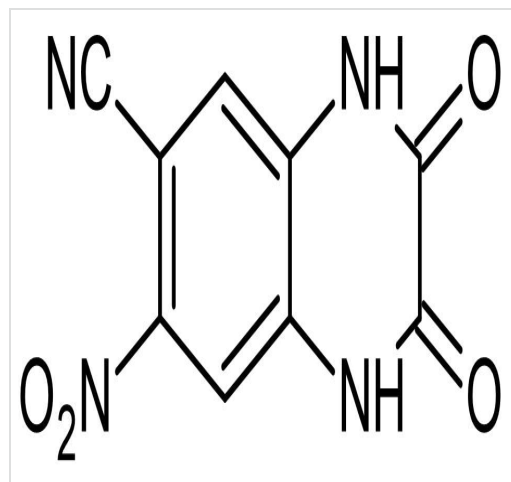
The Abpromise guarantee

Abpromise™ 承诺保证使用 ab120017 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。

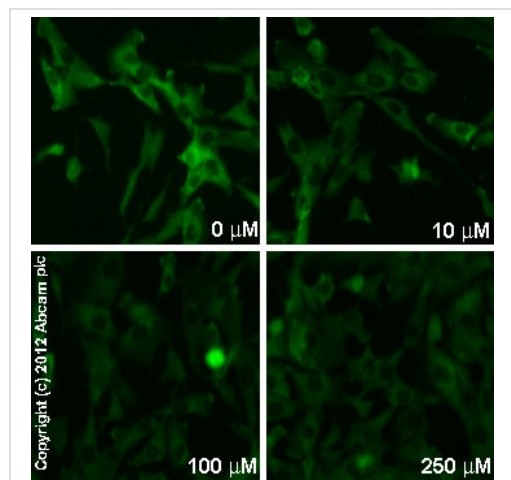
应用	Ab评论	说明
Functional Studies		Use at an assay dependent concentration.

图片



Chemical Structure - CNQX, AMPA / kainate antagonist (ab120017)

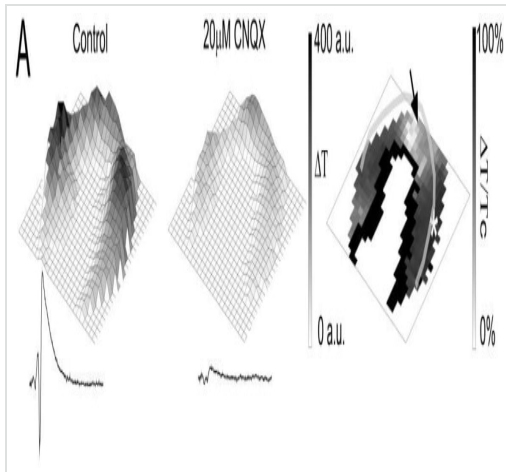
2D chemical structure image of ab120017, CNQX, AMPA / kainate antagonist



Immunocytochemistry/ Immunofluorescence - CNQX, AMPA / kainate antagonist (ab120017)

ab96379 staining MEK1 (phospho S298) in SK-N-SH cells treated with CNQX (ab120017), by ICC/IF. Decrease in MEK1 (phospho S298) expression correlates with increased concentration of CNQX, as described in literature.

The cells were incubated at 37°C for 24h in media containing different concentrations of ab120017 (CNQX) 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 **ab96379** (1/100 dilution) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody.



Cellular activation - CNQX, AMPA / kainate antagonist (ab120017)

Image from Ildiko P, et al. Plos One, 8(3), e57694. Fig 4a.; doi: 110.1371/journal.pone.0057694

Left and Middle: Representative IOS amplitude map and field response curve under control condition and under application of 20 μM CNQX, respectively. The colorbar indicates the maximum change of the transmittance compared to the resting light intensity. A Right: Spatial visualization of the percentage of control changes of IOS signal caused by CNQX application.

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