abcam

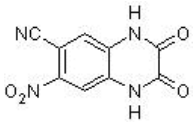
Product datasheet

CNQX, AMPA / kainate antagonist ab120017

71 References　画像数 3

医薬用外劇物

製品の概要

製品名	CNQX, AMPA / kainate antagonist
製品の詳細	AMPA / kainate antagonist
生理活性の詳細	Potent, competitive AMPA / kainate receptor antagonist. Also antagonist at NMDA receptor glycine site.
CAS 番号	115066-14-3
構造式	

製品の特性

体系名	6-Cyano-7-nitroquinoxaline-2,3-dione
分子量	232.16
分子式	$C_9H_4N_4O_4$
PubChem 登録番号	3721046
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 DMSO 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. 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	[O-][N+](=O)c1cc2NC(=O)C(=O)Nc2cc1C#N
由来	Synthetic

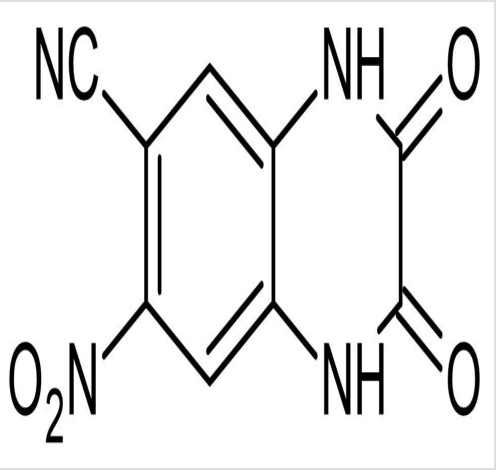
アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab120017の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

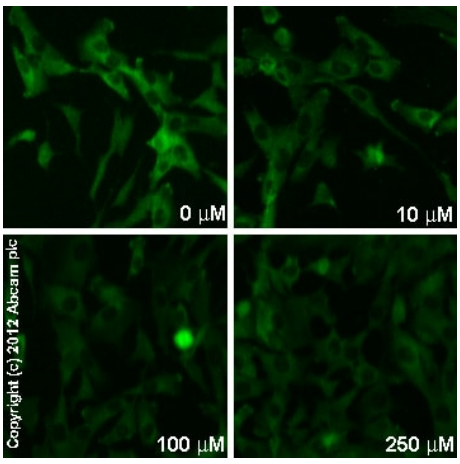
アプリケーション	Abreviews	特記事項
Functional Studies		Use at an assay dependent concentration.

画像



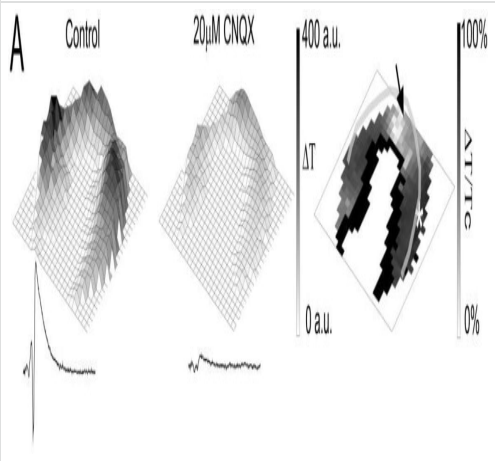
Chemical Structure - CNQX, AMPA / kainate antagonist (ab120017)

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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