## abcam

### Product datasheet

# CNQX disodium salt, AMPA / kainate antagonist ab120044

35 References 2 Images

Overview

Product name CNQX disodium salt, AMPA / kainate antagonist

**Description** AMPA / kainate antagonist; water soluble

Biological description Water soluble, potent, competitive AMPA / kainate receptor antagonist. Also antagonist at NMDA

receptor glycine site.

Also available in simple stock solutions (ab144488) - add 1 ml of water to get an exact, ready-to-

use concentration.

**CAS Number** 479347-85-8

Chemical structure NC N ON:

**Properties** 

**Chemical name** 1,2,3,4-Tetrahydro-7-nitro-2,3-dioxoquinoxaline-6-carbonitrile disodium

Molecular weight 276.12

Molecular formula  $C_9H_2N_4Na_2O_4$ 

PubChem identifier 2821

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 25 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.

Need more advice on solubility, usage and handling? Please visit our frequently asked

questions (FAQ) page for more details.

**SMILES** [Na+].[O-][N+](=O)c1cc2nc([O-])c([O-])nc2cc1C#N

1

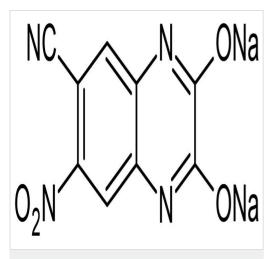
#### **Applications**

The Abpromise guarantee Our <u>Abpromise guarantee</u> covers the use of ab120044 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

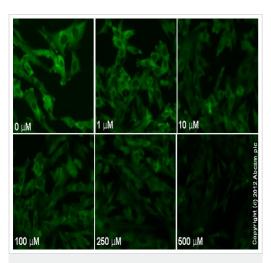
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

#### **Images**



Chemical Structure - CNQX disodium salt, AMPA / kainate antagonist (ab120044)

2D chemical structure image of ab120044, CNQX disodium salt, AMPA / kainate antagonist



Functional Studies - CNQX disodium salt, AMPA / kainate antagonist (ab120044)

ab96379 staining MEK1 (phospho S298) in SK-N-SH cells treated with CNQX disodium salt (ab120044), by ICC/IF. Decrease in MEK1 (phospho S298) expression correlates with increased concentration of CNQX disodium salt, as described in literature. The cells were incubated at 37°C for 24h in media containing different concentrations of ab120044 (CNQX disodium salt) 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.

#### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- · Valid for 12 months from date of delivery
- · Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <a href="https://www.abcam.com/abpromise">https://www.abcam.com/abpromise</a> or contact our technical team.

#### Terms and conditions

- · Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team