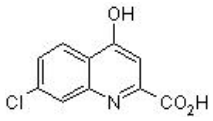
abcam

Product datasheet

7-Chlorokynurenic acid, NMDA receptor glycine site antagonist ab120024

1 References 2 Images

Overview

Product name	7-Chlorokynurenic acid, NMDA receptor glycine site antagonist
Description	NMDA receptor glycine site antagonist
Biological description	Potent NMDA receptor glycine site antagonist. Water-soluble form available - please see 7-Chlorokynurenic acid sodium salt (**ab120255**).
CAS Number	18000-24-3
Chemical structure	

Properties

Chemical name	7-Chloro-4-hydroxyquinoline-2-carboxylic acid
Molecular weight	223.62
Molecular formula	$C_{10}H_6ClNO_3$
PubChem identifier	1884
Storage instructions	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in 1 eq. NaOH to 100 mM and in DMSO to 100 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. 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	O=C(O)c1cc(O)c2ccc(Cl)cc2n1
Source	Synthetic

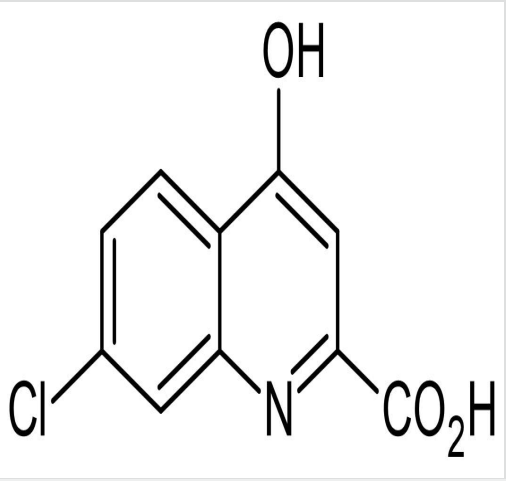
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab120024 in the following tested applications.

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

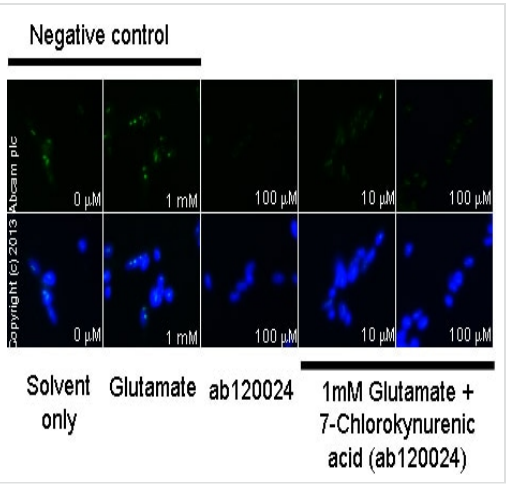
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - 7-Chlorokynurenic acid, NMDA receptor glycine site antagonist (ab120024)

2D chemical structure image of ab120024, 7-Chlorokynurenic acid, NMDA receptor glycine site antagonist



Functional Studies - 7-Chlorokynurenic acid, NMDA receptor glycine site antagonist (ab120024)

ab12416 staining cGMP in SKNSH cells treated with 7-Chlorokynurenic acid (ab120024), by ICC/IF. Decrease in cGMP expression correlates with increased concentration of 7-Chlorokynurenic acid, as described in literature.

The cells were incubated at 37°C for 15 minutes in media containing different concentrations of ab120024 (7-Chlorokynurenic acid) in DMSO. Some samples where then further incubated with 15 µM NMDA (**ab120052**) for 5 minutes and all samples were fixed with 100% methanol for 5 minutes at -20°C 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 **ab12416** (5 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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