

Product datasheet

NBQX disodium salt, AMPA / kainate antagonist

ab120046

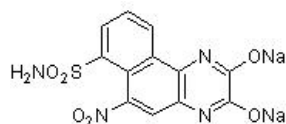
★★★★★ [1 Abreviews](#) [64 References](#) [2 Images](#)

Overview

Product name	NBQX disodium salt, AMPA / kainate antagonist
Description	AMPA / kainate antagonist; water soluble
Biological description	Water soluble, potent, selective and competitive AMPA / kainate receptor antagonist. Neuroprotective and anticonvulsant <i>in vivo</i> .
	Also available in simple stock solutions (ab144489) - add 1 ml of water to get an exact, ready-to-use concentration.

CAS Number 479347-86-9

Chemical structure



Properties

Chemical name	2,3-Dioxo-6-nitro-1,2,3,4-tetrahydrobenzo[f]quinoxaline-7-sulfonamide disodium salt
Molecular weight	380.24
Molecular formula	C ₁₂ H ₆ N ₄ Na ₂ O ₆ S
PubChem identifier	3272523
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 100 mM
Handling	This product is supplied in one (or more) pack size which is freeze dried. Therefore the contents may not be readily visible, as they can coat the bottom or walls of the vial. Please see our FAQs and information page for more details on 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

[Na+].[Na+].NS(=O)(=O)c3cccc2c3c(cc1nc([O-])c([O-])nc12)[N+](=[O-])=O

Source

Synthetic

Applications

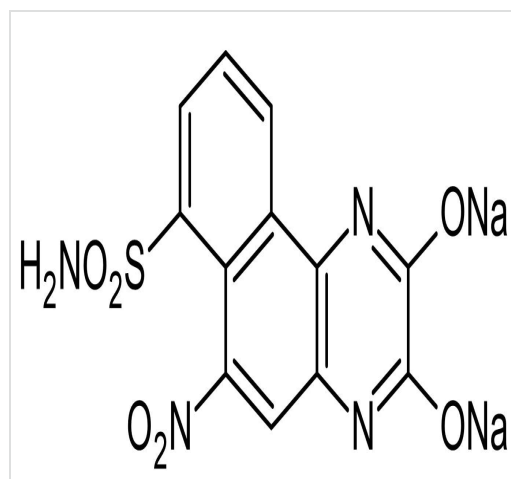
The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab120046 in the following tested applications.

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

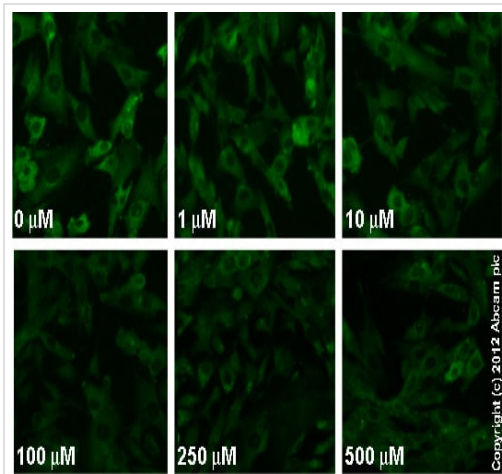
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



2D chemical structure image of ab120046, NBQX disodium salt, AMPA / kainate antagonist

Chemical Structure - NBQX disodium salt, AMPA / kainate antagonist (ab120046)



Functional Studies - NBQX disodium salt, AMPA / kainate antagonist (ab120046)

ab96379 staining MEK1 (phospho S298) in SK-N-SH cells treated with NBQX disodium salt (ab120046), by ICC/IF. Decrease in MEK1 (phospho S298) expression correlates with increased concentration of NBQX disodium salt, as described in literature. The cells were incubated at 37°C for 24h in media containing different concentrations of ab120046 (NBQX 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.

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

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