

Product datasheet

Kynurenic acid, endogenous ionotropic / nicotinic antagonist ab120064

27 References 2 Images

Overview

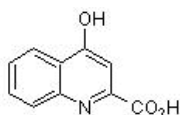
Product name Kynurenic acid, endogenous ionotropic / nicotinic antagonist

Description Endogenous ionotropic / nicotinic antagonist

Biological description Endogenous antagonist at ionotropic, glycine β and $\alpha 7$ nicotinic receptors. Neuroprotective *in vivo*. Water-soluble form available - please see Kynurenic acid sodium salt ([ab120256](#))

CAS Number 492-27-3

Chemical structure



Properties

Chemical name 4-Hydroxyquinoline-2-carboxylic acid

Molecular weight 189.17

Molecular formula C₁₀H₇NO₃

PubChem identifier 3845

Storage instructions Store at Room Temperature. The product can be stored for up to 12 months.

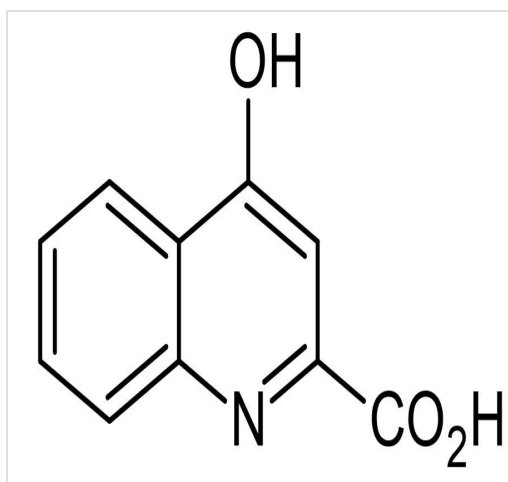
Solubility overview Soluble in 1 eq. NaOH to 100 mM and in DMSO to 50 mM

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.

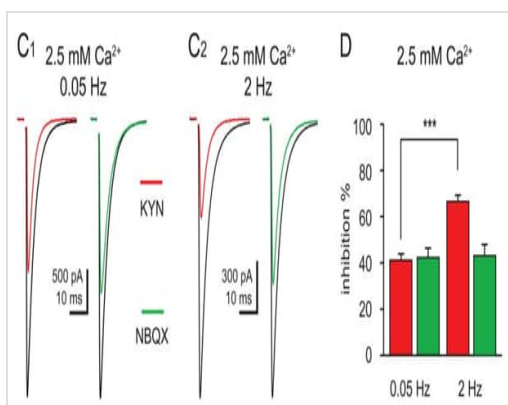
SMILES O=C(O)c1cc(O)c2ccccn1

Source Synthetic



2D chemical structure image of ab120064, Kynurenic acid, endogenous ionotropic / nicotinic antagonist

Chemical Structure - Kynurenic acid, endogenous ionotropic / nicotinic antagonist (ab120064)



C1 and C2 - Inhibition of climbing fiber to Purkinje cell EPSCs in (control; black) by 1 mM Kynurenic acid (red, ab120064) or 100 nM NBQX (green, ab120045) recorded in 2.5 mM external Ca²⁺ at 0.05 Hz (C1) and 2 Hz (C2) stimulation frequency. D - Summary of inhibition of EPSCs by 1 mM Kynurenic acid (red, ab120064) and 100 nM NBQX (green, ab120045) in 2.5 mM external Ca²⁺.

Functional Studies - Kynurenic acid, endogenous ionotropic / nicotinic antagonist (ab120064)

Image from Rudolph S et al., Neuron. 2011;70(5):991-1004. Fig 3.; doi: 10.1016/j.neuron.2011.03.029 with permission from Elsevier.

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