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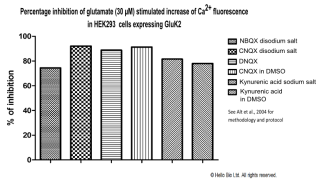
DATASHEET

Kynurenic acid

Product overview

Name	Kynurenic acid
Cat No	HB0362
Alternative names	Kynurenate; KYNA
Biological action	Antagonist
Purity	>98%
Description	Endogenous ionotropic glutamate / nicotinic antagonist.

Images



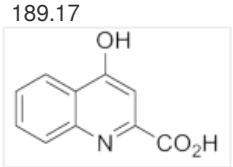
Biological Data

Biological description	Endogenous, non-selective ionotropic glutamate receptor antagonist which acts as a non-competitive glycine site NMDAR antagonist. Also an α7 nicotinic receptor antagonist and GPR35 ligand. Blocks kainic acid neurotoxicity and displays neuroprotective, antiproliferative and antimigrative properties.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (75mM) and in 0.1M NaOH (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	4-Hydroxyquinoline-2-carboxylic acid
Molecular Weight	189.17
Chemical structure	
Molecular Formula	$C_{10}H_7NO_3$
CAS Number	492-27-3

PubChem identifier	3845
SMILES	C1=CC=C2C(=C1)C(=O)C=C(N2)C(=O)O
InChi	InChI=1S/C10H7NO3/c12-9-5-8(10(13)14)11-7-4-2-1-3-6(7)9/h1-5H,(H,11,12)(H,13,14)
InChiKey	HCZHHEIFKROPDY-UHFFFAOYSA-N
MDL number	MFCD00006753
Appearance	White solid

References

6-Hydroxykynurenic acid and kynurenic acid differently antagonise AMPA and NMDA receptors in hippocampal neurones.

Weber M *et al* (2001) J Neurochem 77(4)
PubMedID 11359876

Kynurenic acid inhibits proliferation and migration of human glioblastoma T98G cells.

Walczak K *et al* (2014) Pharmacol Rep 66(1)
PubMedID 24905318

Kynurenate is neuroprotective following experimental brain injury in the rat.

Hicks RR *et al* (1994) Brain Res 655(1-2)
PubMedID 7812795

Pharmacological characterization of glutamatergic agonists and antagonists at recombinant human homomeric and heteromeric kainate receptors in vitro.

Alt et al (2004) Neuropharmacology 46(6)
PubMedID 15033339