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DATASHEET

5,7-Dichlorokynurenic acid

Product overview

Name	5,7-Dichlorokynurenic acid
Cat No	HB0078
Alternative names	DCKA; 5,7-DCK
Biological action	Antagonist
Purity	>98%
Description	Potent, selective, competitive glycine site NMDA receptor antagonist

Images

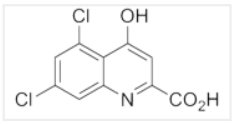
Biological Data

Biological description	Potent, selective and competitive NMDA receptor antagonist (K_i = 79 nM). Binds at the glycine site. Neuroprotective actions in cell culture.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in 0.1M NaOH (100mM) and in DMSO (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	5,7-Dichloro-4-hydroxyquinoline-2-carboxylic acid
Molecular Weight	258.06
Chemical structure	
Molecular Formula	$C_{10}H_5Cl_2NO_3$
CAS Number	131123-76-7
PubChem identifier	1779
SMILES	C1=C(C=C2C(=C1Cl)C(=O)C=C(N2)C(=O)O)Cl

InChi	InChI=1S/C10H5Cl2NO3/c11-4-1-5(12)9-6(2-4)13-7(10(15)16)3-8(9)14/h1-3H,(H,13,14)(H,15,16)
InChiKey	BGKFPRIGXAVYNX-UHFFFAOYSA-N
MDL number	MFCD00083173

References

5,7-Dichlorokynurenic acid, a potent and selective competitive antagonist of the glycine site on NMDA receptors.

McNamara D *et al* (1990) Neurosci Lett 120(1)
PubMedID 2149877

Activity of 5,7-dichlorokynurenic acid, a potent antagonist at the N-methyl-D-aspartate receptor-associated glycine binding site.

Baron BM *et al* (1990) Mol Pharmacol 38(4)
PubMedID 2172769