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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



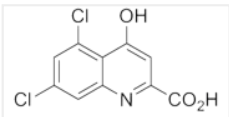
Biological Data

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

Solubility overview	Soluble in 0.1M NaOH (100mM) and in DMSO (100mM)
Storage instructions	Room temperature
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions Important	Stable for ambient temperature shipping. Follow storage instructions on receipt. 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	$\text{C}_{10}\text{H}_5\text{Cl}_2\text{NO}_3$

CAS Number	131123-76-7
PubChem identifier	1779
SMILES	<chem>C1=C(C=C2C(=C1Cl)C(=O)C=C(N2)C(=O)O)Cl</chem>
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	MFC00083173

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](#)
