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DATASHEET

7-Chlorokynurenic acid

Product overview

Name	7-Chlorokynurenic acid
Cat No	HB0086
Alternative names	7-CKA
Biological action	Antagonist
Purity	>95%
Description	Selective NMDA receptor antagonist

Images



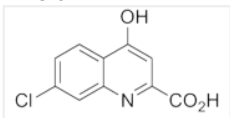
Biological Data

Biological description	Selective NMDA receptor antagonist ($IC_{50} = 0.56 \mu M$). Binds at the glycine site. Centrally acting with antidepressant and anticonvulsant activity.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100mM) or NaOH (100mM, 1eq. NaOH)
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	7-Chloro-4-hydroxyquinoline-2-carboxylic acid
Molecular Weight	223.62
Chemical structure	
Molecular Formula	$C_{10}H_6ClNO_3$
CAS Number	18000-24-3
PubChem identifier	1884
SMILES	<chem>O=C(O)c1cc(O)c2ccc(Cl)cc2n1</chem>

Chemical name	7-Chloro-4-hydroxyquinoline-2-carboxylic acid
InChi	InChI=1S/C10H6ClNO3/c11-5-1-2-6-7(3-5)12-8(10(14)15)4-9(6)13/h1-4H,(H,12,13)(H,14,15)
InChiKey	UAWVRVFHMOSAPU-UHFFFAOYSA-N
MDL number	MFCD00069227

References

Synthesis, pharmacokinetics and anticonvulsant activity of 7-chlorokynurenic acid prodrugs.

Bonina FP *et al* (2000) Int J Pharm 202(1-2)

PubMedID [10915929](#)

Systemically administered D-glucose conjugates of 7-chlorokynurenic acid are centrally available and exert anticonvulsant activity in rodents.

Battaglia G *et al* (2000) Brain Res 860(1-2)

PubMedID [10727634](#)

7-Chlorokynurenic acid is a selective antagonist at the glycine modulatory site of the N-methyl-D-aspartate receptor complex.

Kemp JA *et al* (1988) Proc Natl Acad Sci U S A 85(17)

PubMedID [2842779](#)
