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## DATASHEET

7-Chlorokynurenic acid

### Product overview

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

### Images



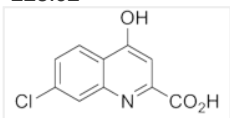
### Biological Data

<b>Biological description</b>	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

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (100mM) or NaOH (100mM, 1eq. NaOH)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	7-Chloro-4-hydroxyquinoline-2-carboxylic acid
<b>Molecular Weight</b>	223.62
<b>Chemical structure</b>	
<b>Molecular Formula</b>	$C_{10}H_6ClNO_3$
<b>CAS Number</b>	18000-24-3
<b>PubChem identifier</b>	1884
<b>SMILES</b>	<chem>O=C(O)c1cc(O)c2ccc(Cl)cc2n1</chem>

**InChi**  
**InChiKey**  
**MDL number**

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)  
UAWVRVFMOSAPU-UHFFFAOYSA-N  
MFCD00069227

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## 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](#)

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