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## DATASHEET

Quinolinic acid

### Product overview

|                          |                                  |
|--------------------------|----------------------------------|
| <b>Name</b>              | Quinolinic acid                  |
| <b>Cat No</b>            | HB0544                           |
| <b>Biological action</b> | Agonist                          |
| <b>Purity</b>            | >98%                             |
| <b>Description</b>       | Endogenous NMDA receptor agonist |

### Images



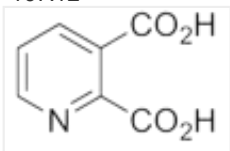
### Biological Data

|                               |                                                                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological description</b> | Endogenous NMDA receptor agonist. Shows no activation at GluN1 and GluN2C subunit containing receptors. Displays neurotoxin and pro-inflammatory properties. |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Solubility & Handling

|                             |                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage instructions</b> | Room temperature                                                                                                              |
| <b>Solubility overview</b>  | Soluble in NaOH(aq) (50mM, 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>      | Pyridine-2,3-dicarboxylic acid                                                      |
| <b>Molecular Weight</b>   | 167.12                                                                              |
| <b>Chemical structure</b> |  |
| <b>Molecular Formula</b>  | C <sub>7</sub> H <sub>5</sub> NO <sub>4</sub>                                       |
| <b>CAS Number</b>         | 89-00-9                                                                             |
| <b>PubChem identifier</b> | 1066                                                                                |
| <b>SMILES</b>             | OC(=O)C1=C(N=CC=C1)C(O)=O                                                           |

|               |                                |
|---------------|--------------------------------|
| Chemical name | Pyridine-2,3-dicarboxylic acid |
| InChiKey      | GJAWHXHKYYXBSV-UHFFFAOYSA-N    |

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## References

### Quinolinic acid, the inescapable neurotoxin.

Guillemin GJ (2012) FEBS J 279(8)

**PubMedID** [22248144](#)

### The endogenous agonist quinolinic acid and the non endogenous homoquinolinic acid discriminate between NMDAR2 receptor subunits.

de Carvalho LP *et al* (1996) Neurochem Int 28(4)

**PubMedID** [8740453](#)

### Quinolinic acid and kynurenine pathway metabolism in inflammatory and non-inflammatory neurological disease.

Heyes MP *et al* (1992) Brain 115 ( Pt 5)

**PubMedID** [1422788](#)

### Quinolinic acid: an endogenous neurotoxin with multiple targets.

Lugo-Huitrón R *et al* (2013) Oxid Med Cell Longev 2013

**PubMedID** [24089628](#)

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