



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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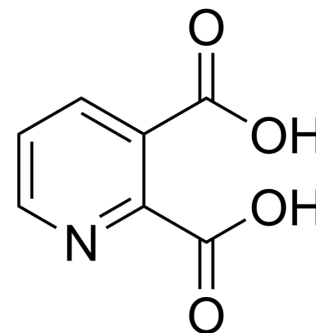
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Quinolinic acid (Standard)

Cat. No.:	HY-100807R
CAS No.:	89-00-9
Molecular Formula:	C ₇ H ₅ NO ₄
Molecular Weight:	167.12
Target:	Endogenous Metabolite; iGluR
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 33.33 mg/mL (199.44 mM; Need ultrasonic)
H₂O : 3.33 mg/mL (19.93 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.9837 mL	29.9186 mL	59.8372 mL
	5 mM	1.1967 mL	5.9837 mL	11.9674 mL
	10 mM	0.5984 mL	2.9919 mL	5.9837 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Quinolinic acid (Standard) is the analytical standard of Quinolinic acid. This product is intended for research and analytical applications. Quinolinic acid is an endogenous N-methyl-D-aspartate (NMDA) receptor agonist synthesized from L-tryptophan via the kynurenine pathway and thereby has the potential of mediating N-methyl-D-aspartate neuronal damage and dysfunction^{[1][2]}.

IC₅₀ & Target

NMDA Receptor^[1]

CUSTOMER VALIDATION

- Hepatology. 2022 Jul 11.
- Cell Rep. 2022 Mar 8;38(10):110462.
- Metabolites. 2023 Dec 12, 13(12), 1196.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Heyes MP, et al. Quinolinic acid and kynurenine pathway metabolism in inflammatory and non-inflammatory neurological disease. *Brain*. 1992 Oct;115 (Pt 5):1249-73.
- [2]. Jang S, et al. Neuroprotective effects of (-)-epigallocatechin-3-gallate against quinolinic acid-induced excitotoxicity via PI3K pathway and NO inhibition. *Brain Res*. 2010 Feb 8;1313:25-33.
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Caution: Product has not been fully validated for medical applications. For research use only.

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