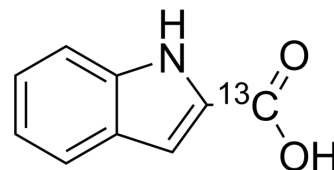


Indole-2-carboxylic acid-¹³C

Cat. No.:	HY-I0096S
CAS No.:	1216839-31-4
Molecular Formula:	C ₈ ¹³ CH ₇ NO ₂
Molecular Weight:	162.15
Target:	iGluR; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Indole-2-carboxylic acid- ¹³ C is the ¹³ C-labeled Indole-2-carboxylic acid. Indole-2-carboxylic acid is a strong inhibitor of lipid peroxidation. Indole-2-carboxylic acid (I2CA) specifically and competitively inhibits the potentiation by glycine of NMDA-gated current[1][2].
IC₅₀ & Target	NMDA Receptor
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. 2-Indolecarboxylic acid.
- [3]. J E Huettner, et al. Indole-2-carboxylic Acid: A Competitive Antagonist of Potentiation by Glycine at the NMDA Receptor. *Science*. 1989 Mar 24;243(4898):1611-3.

Caution: Product has not been fully validated for medical applications. For research use only.

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