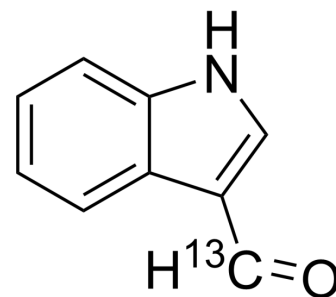


Indole-3-carboxaldehyde-¹³C₃

Cat. No.:	HY-W007376S
CAS No.:	1093452-52-8
Molecular Formula:	C ₈ ¹³ CH ₇ NO
Molecular Weight:	146.15
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Indole-3-carboxaldehyde- ¹³ C (3-Formylindole- ¹³ C) is a ¹³ C labeled Indole-3-carboxaldehyde (HY-W007376). Indole-3-carboxaldehyde (3-Formylindole), a banlangen extract, is the product of the oxidative degradation of indole-3-acetic acid (IAA) by crude enzyme preparations from etiolated pea seedlings. Indole-3-carboxaldehyde (3-Formylindole) is a biochemical used to prepare analogs of the indole phytoalexin cyclobrassinin ^{[1][2]} .
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 Feb;53(2):211-246.
- [2]. Robert E. Stutz, et al. Enzymatic Formation of Indole-3-Carboxaldehyde from Indole-3-Acetic Acid. *Plant Physiol.* 1958 May; 33(3): 207-212.

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

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