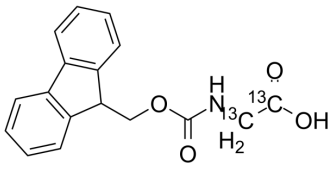
Fmoc-Gly-OH-13C2

Cat. No.:	HY-Y1250S5
CAS No.:	286460-80-8
Molecular Formula:	$C_{15}{}^{13}C_2H_{15}NO_4$
Molecular Weight:	299.29
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fmoc-Gly-OH-13C2 is a 13C-labeled Xanthine. Xanthine, a plant alkaloid found in tea, coffee, and cocoa, is a mild stimulant of the central nervous system. Xanthine also acts as an intermediate product on the pathway of purine degradation[1][2][3].
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[75]. 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):211-232.

[2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-232.

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