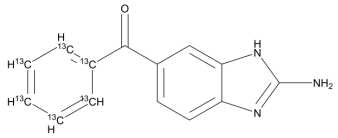
Mebendazole-amine-$^{13}C_6$

Cat. No.:	HY-114750S
Molecular Formula:	$C_8{}^{13}C_6H_{11}N_3O$
Molecular Weight:	243.21
Target:	Drug Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Mebendazole-amine-$^{13}C_6$ is the $^{13}C_6$ labeled Mebendazole-amine. Mebendazole-amine is a metabolite of Mebendazole. Mebendazole is a broad-spectrum benzimidazole anti-helminthic agent.
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]. Majewsky M, et al. Systematic identification of suspected anthelmintic benzimidazole metabolites using LC-MS/MS. J Pharm Biomed Anal. 2018;151:151-158.

[2]. Pantziarka P, et al. Repurposing Drugs in Oncology (ReDO)-mebendazole as an anti-cancer agent. Ecancermedicalscience. 2014;8:443. Published 2014 Jul 10.

[3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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