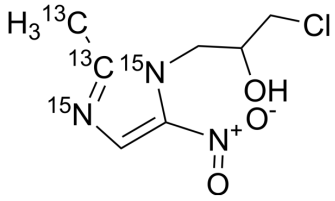
Ornidazole-$^{13}C_2$,$^{15}N_2$

Cat. No.:	HY-B0508S1
Molecular Formula:	$C_5{}^{13}C_2H_{10}ClN^{15}N_2O_3$
Molecular Weight:	223.6
Target:	Bacterial; Parasite; Antibiotic; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ornidazole-$^{13}C_2$,$^{15}N_2$ is the ^{13}C, ^{15}N labeled Ornidazole. Ornidazole(Ro 7-0207) is a 5-nitroimidazole derivative with antiprotozoal and antibacterial properties against anaerobic bacteria.
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]. Goldstein, E.J., V.L. Sutter, and S.M. Finegold, Comparative susceptibilities of anaerobic bacteria to metronidazole, ornidazole, and SC-28538. Antimicrob Agents Chemother, 1978. 14(4): p. 609-13.

[2]. Rutgeerts, P., et al., Ornidazole for prophylaxis of postoperative Crohn's disease recurrence: a randomized, double-blind, placebo-controlled trial. Gastroenterology, 2005. 128(4): p. 856-61.

[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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