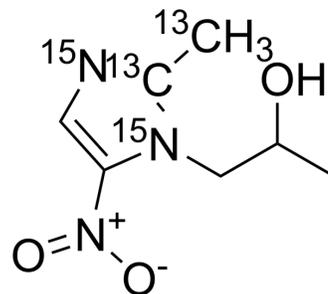


## Secnidazole-<sup>13</sup>C<sub>2</sub>, <sup>15</sup>N<sub>2</sub>

<b>Cat. No.:</b>	HY-B1118S1
<b>Molecular Formula:</b>	C <sub>5</sub> <sup>13</sup> C <sub>2</sub> H <sub>11</sub> N <sup>15</sup> N <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	189.15
<b>Target:</b>	Parasite; Antibiotic; Isotope-Labeled Compounds
<b>Pathway:</b>	Anti-infection; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Secnidazole- <sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> is the <sup>13</sup> C <sub>2</sub> , <sup>15</sup> N <sub>2</sub> labeled Secnidazole. Secnidazole (RP-14539;PM-185184) is an orally activeazole antibiotic with a longer half-life than metronidazole (HY-B0318). Secnidazole is against the vaginosis-associated bacteria and has the potential for bacterial vaginosis research.
<b>IC<sub>50</sub> &amp; Target</b>	Amebae
<b>In Vitro</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Petrina MAB, et al. Susceptibility of bacterial vaginosis (BV)-associated bacteria to secnidazole compared to metronidazole, tinidazole and clindamycin. *Anaerobe*. 2017 Oct;47:115-119.

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

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

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