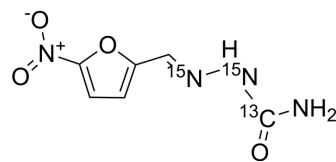


## Nitrofurazone-<sup>13</sup>C,<sup>15</sup>N<sub>2</sub>

<b>Cat. No.:</b>	HY-B0226S
<b>CAS No.:</b>	1217220-85-3
<b>Molecular Formula:</b>	C <sub>5</sub> <sup>13</sup> CH <sub>6</sub> N <sub>2</sub> <sup>15</sup> N <sub>2</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	201.12
<b>Target:</b>	Isotope-Labeled Compounds
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Nitrofurazone- <sup>13</sup> C, <sup>15</sup> N <sub>2</sub> (Nitrofurazone- <sup>13</sup> C, <sup>15</sup> N <sub>2</sub> ) is the <sup>13</sup> C and <sup>15</sup> N labeled Nitrofurazone (HY-B0226) <sup>[1]</sup> . Nitrofurazone is a potential antibiotic that can be used topically to treat wounds, burns, ulcers and skin infections to combat various microorganisms and to prepare surfactants <sup>[1]</sup> . Nitrofurazone may affect the ecosystem function in Marine environment and affect the functional processes of epiphytic fauna <sup>[2][3]</sup> .
<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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Uroosa, et al. Effects of nitrofurazone on ecosystem function in marine environments: A case study on microbial fauna. *Mar Pollut Bull*. 2022 Nov;184:114216.

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

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