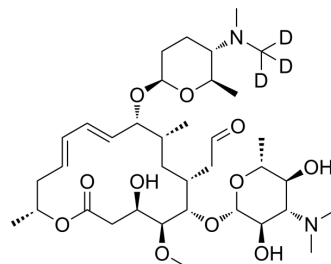


## Neo Spiramycin I-dC

Cat. No.:	HY-143623S
Molecular Formula:	C <sub>36</sub> H <sub>59</sub> D <sub>3</sub> N <sub>2</sub> O <sub>11</sub>
Molecular Weight:	701.9
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Neo Spiramycin I-d <sub>3</sub> is the deuterium labeled Neo Spiramycin I (HY-143623) <sup>[1]</sup> . Neo Spiramycin I (NSPI) is the active metabolite of Spiramycin (SPI) with antimicrobial activity. Neo Spiramycin is widely used in veterinary medicine <sup>[2]</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]. Saleh H, et al. Validation of hplc-uv multi-residue method for the simultaneous determination of tetracycline, oxytetracycline, spiramycin and neospiramycin in raw milk[J]. *Food Analytical Methods*, 2021, 14: 36-43.

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

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