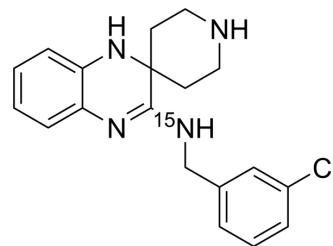


Liproxstatin-1-¹⁵N

Cat. No.:	HY-12726S1
Molecular Formula:	C ₁₉ H ₂₁ ClN ₃ ¹⁵ N
Molecular Weight:	341.84
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Liproxstatin-1- ¹⁵ N is the ¹⁵ N labeled Liproxstatin-1 (HY-12726). Liproxstatin-1 is a potent ferroptosis inhibitor and inhibits ferroptotic cell death (IC ₅₀ =22 nM) ^[1] .
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 ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Friedmann Angeli JP, et al. Inactivation of the ferroptosis regulator Gpx4 triggers acute renal failure in mice. *Nat Cell Biol.* 2014 Dec;16(12):1180-91.
- [2]. Zilka O, et al. On the Mechanism of Cytoprotection by Ferrostatin-1 and Liproxstatin-1 and the Role of Lipid Peroxidation in Ferroptotic Cell Death. *ACS Cent Sci.* 2017 Mar 22;3(3):232-243
- [3]. 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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