

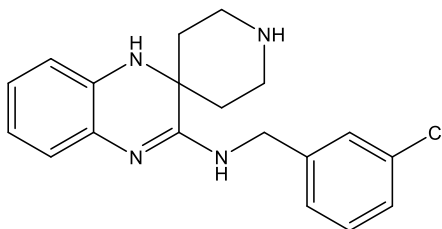
**Catalog # 10-4670**

**Liproxstatin-1**

CAS# 950455-15-9

N-[(3-Chlorophenyl)methyl]spiro[1,4-dihydroquinoxaline-3,4'-piperidine]-2-amine

Lot # FBS2098



Liproxstatin-1 is an inhibitor of ferroptosis ( $IC_{50} = 22 \text{ nM}$ ).<sup>1</sup> It was able to mitigate tissue injury in a mouse model of hepatic ischemia/reperfusion injury.<sup>1</sup> It protected mouse myocardium against ischemia/reperfusion injury via a decrease in VDAC1 and restoration of GPX4 levels.<sup>2</sup> Liproxstatin-1's mechanism of activity has been attributed to its activity as a radical-trapping antioxidant.<sup>3</sup>

- 1) Angeli *et al.* (2014), *Inactivation of the ferroptosis regulator Gpx4 triggers acute renal failure in mice*; Nat. Chem. Biol. **16** 1180
- 2) Feng *et al.* (2019), *Liproxstatin-1 protects the mouse myocardium against ischemia/reperfusion injury by decreasing VDAC1 levels and restoring GPX4 levels*; Biochem. Biophys. Res. Commun. **520** 606
- 3) Zilka *et al.* (2017), *On the mechanism of Cytoprotection by Ferrostatin-1 and Liproxstatin-1 and the Role of Lipid Peroxidation in Ferroptotic Cell Death*; ACS Cent. Sci. **3** 232

**PHYSICAL DATA**

|                        |   |
|------------------------|---|
| Molecular Weight:      | 340.85  |
| Molecular Formula:     | C <sub>19</sub> H <sub>21</sub> ClN <sub>4</sub>  |
| Purity:                | >98% HPLC   |
|                        | NMR: (Conforms)   |
| Solubility:            | Soluble in DMSO (15 mg/ml)  |
| Physical Description:  | White to Off-white solid  |
| Storage and Stability: | Store as supplied at -20°C for up to 1 year from the date of purchase. Store solutions at -20°C for up to 2 months. |

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**