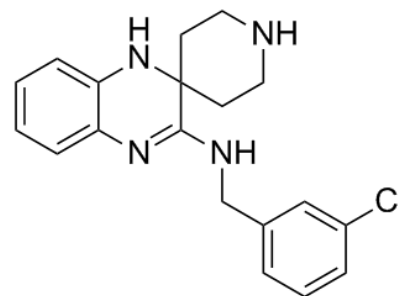


Product Name : Liproxstatin-1
Cat. No. : PC-43164
CAS No. : 950455-15-9
Molecular Formula : C₁₉H₂₁ClN₄
Molecular Weight : 340.8499
Target : Ferroptosis
Solubility : DMSO: ≥ 31 mg/mL



Biological Activity

Liproxstatin-1 is a specific small molecule **ferroptosis** inhibitor (IC₅₀=22 nM) via inactivation of the ferroptosis regulator **Gpx4** (glutathione peroxidase 4), shows no activity on necroptosis. Liproxstatin-1 prevents BODIPY 581/591 C11 oxidation in Gpx4^{-/-} cells, does not interfere with other classical types of cell death, such as TNF α -induced apoptosis and H₂O₂-induced necrosis. Liproxstatin-1 suppresses ferroptosis in Gpx4^{-/-} mice, and in a pre-clinical model of ischaemia/reperfusion-induced hepatic damage.

References

Friedmann Angeli JP, et al. **Nat Cell Biol.** 2014 Dec;16(12):1180-91.
Kim SE, et al. **Nat Nanotechnol.** 2016 Nov;11(11):977-985.
Zilka O, et al. **ACS Cent Sci.** 2017 Mar 22;3(3):232-243.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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