

Product Name : Liproxstatin-1

Synonyms : Liproxstatin 1

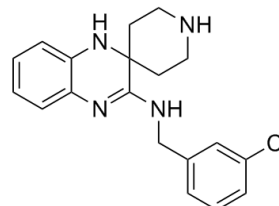
Cat No. : M16796

CAS Number : 950455-15-9

Molecular Formula : C₁₉H₂₁ClN₄

Formula Weight : 340.85

Chemical Name : Spiro[piperidine-4,2'(1'H)-quinoxalin]-3'-amine, N-[(3-chlorophenyl)methyl]-



Description : 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; prevents BODIPY 581/591 C11 oxidation in Gpx4^{-/-} cells, does not interfere with other classical types of cell death, such as TNFα-induced apoptosis and H₂O₂-induced necrosis; suppresses ferroptosis in Gpx4^{-/-} mice, and in a pre-clinical model of ischaemia/reperfusion-induced hepatic damage.

Pathway : Apoptosis

Target : Ferroptosis

Receptor : Ferroptosis

Solubility : DMSO: ≥ 31 mg/mL

SMILES : ClC1=CC(CNC(C23CCNCC2)=NC4=C(N3)C=CC=C4)=CC=C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Friedmann Angeli JP, et al. Nat Cell Biol. 2014 Dec;16(12):1180-91. | 2. Kim SE, et al. Nat Nanotechnol. 2016 Nov;11(11):977-985. | 3. Zilka O, et al. ACS Cent Sci. 2017 Mar 22;3(3):232-243.