

Product Name: Liproxstatin-1 hydrochloride

Catalog No.: 6113

Batch No.: 1

CAS Number: 2250025-95-5

IUPAC Name: *N*-[(3-Chlorophenyl)methyl]spiro[piperidine-4,2'(1'*H*)-quinoxalin]-3'-amine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₁ClN₄.HCl.½H₂O

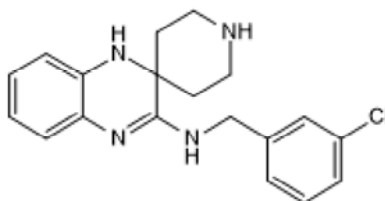
Batch Molecular Weight: 386.32

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



HCl

2. ANALYTICAL DATA

HPLC: Shows 98% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.07	6	14.5
Found	58.99	5.73	14.54

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: N-[(3-Chlorophenyl)methyl]spiro[piperidine-4,2'(1'H)-quinoxalin]-3'-amine hydrochloride

Description:

Liproxstatin-1 hydrochloride is a potent ferroptosis inhibitor (IC_{50} = 22 nM). Protects human renal proximal tubule cells from 1S,3R-RSL3 (Cat.No. 6118) -induced cell death in vitro. Inhibits acute renal failure and prolongs survival in Gpx4 knockdown mice. Also mitigates tissue damage in an in vivo hepatic ischemia/reperfusion model.

Physical and Chemical Properties:

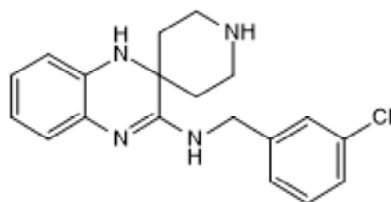
Batch Molecular Formula: $C_{19}H_{21}ClN_4 \cdot HCl \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 386.32

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



HCl

References:

Friedmann Angeli et al (2014) Inactivation of the ferroptosis regulator Gpx4 triggers acute renal failure in mice. *Nat.Cell.Biol.* **16** 1180. PMID: 25402683.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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