

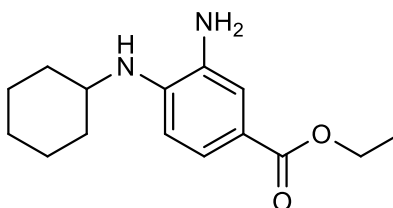
Catalog # 10-1380

Ferrostatin-1

347174-05-4

Ethyl 3-amino-4-(cyclohexylamino)benzoate

Lot # X105303



Inhibits ferroptosis ($EC_{50}=60$ nM), an iron-dependent form of nonapoptotic cell death¹. Potent inhibitor of ferroptosis in cancer cells and glutamate-induced cell death in organotypic rat brain slices¹. Blocks the cytotoxic effects of sorafenib in hepatocellular carcinoma cells². Inhibits oxidative lipid damage and cell death in diverse disease models³. Prevents apoptosis of renal proximal tubular cells induced by reactive oxygen species⁴.

- 1) Dixon *et al.* (2012), *Ferroptosis: an iron-dependent form of nonapoptotic cell death*; *Cell*, **149** 1060
- 2) Louandre *et al.* (2013), *Iron-dependent cell death of hepatocellular carcinoma cells exposed to sorafenib*; *Int. J. Cancer*, **133** 1732
- 3) Skouta *et al.* (2014), *Ferrostatis inhibit oxidative lipid damage and cell death in diverse disease models*; *J. Am. Chem. Soc.*, **136** 4551
- 4) Nowak *et al.* (2013), *Protein kinase C- α interaction with iHSP70 in mitochondria promotes recovery of mitochondrial function after injury in renal proximal tubular cells*; *Am. J. Physiol. Renal. Physiol.*, **305** F764

PHYSICAL DATA

Molecular Weight:	262.35
Molecular Formula:	C ₁₅ H ₂₂ N ₂ O ₂
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 100 mg/ml) or Ethanol (up to 100 mg/ml)
Physical Description:	Tan solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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