NEUROMICS

Ferrostatin-1 Data Sheet

Catalog Number:	MC11096	**Product Type:**	Small Molecule
Bio-Activity:	Ferroptosis inhibitor	**CAS #:**	347174-05-4
Research Categories:	Cell death, oxidative stress, cancer	**Chemical Name:**	Ethyl 3-amino-4-(cyclohexylamino)benzoate
Solubility:	Soluble in DMSO (up to 100 mg/ml) or in Ethanol (up to 100 mg/ml).	**Molecular Formula:**	C15H22N2O2
Purity:	> 98%	**Molecular Weight:**	262.35
Format:	Powder	**Ship Temp:**	Ambient
Storage:	Room Temperature		

Application Notes

Description/Data:
Inhibits ferroptosis (EC50=60 nM), an iron-dependent form of nonapoptotic cell death [1]. Potent inhibitor of ferroptosis in cancer cells and glutamate-induced cell death in organotypic rat brain slices [1]. Blocks the cytotoxic effects of sorafenib in hepatocellular carcinoma cells [2]. Inhibits oxidative lipid damage and cell death in diverse disease models [3]. Prevents apoptosis of renal proximal tubular cells induced by reactive oxygen species [4].

References:

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), Ferrostatins 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-a interaction with iHSP70 in mitochondria promotes recovery of mitochondrial function after injury in renal proximal tubular cells; Am. J. Physiol. Renal. Physiol., 305 F764

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