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Certificate of Analysis

Catalog No.: 5180

Print Date: Oct 8th 2021

Batch No.: 2

www.tocris.com

Product Name: Ferrostatin 1

CAS Number: 347174-05-4 IUPAC Name: Ethyl 3-amino-4-(cyclohexylamino)benzoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₁₅H₂₂N₂O₂. 262.35 Brown solid DMSO to 100 mM ethanol to 100 mM Store at +4°C

Storage: Batch Molecular Structure:

NH₂ 0

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.9% purity Consistent with structure Consistent with structure

	Carbon Hy	ydrogen N	litrogen
Theoretical	68.67	8.45	10.68
Found	68.73	8.53	10.72

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

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IUPAC Name: Ethyl 3-amino-4-(cyclohexylamino)benzoate

Description:

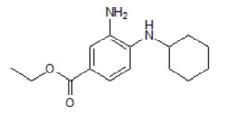
Ferrostatin 1 is a selective inhibitor of erastin induced ferroptosis (EC₅₀ = 60 nM). Specifically inhibits Ras selective lethal compound -induced death, but not cell death induced by other oxidative lethal compounds and apoptosis-inducing agents. Inhibits ferroptosis in cancer cells; also inhibits glutamate-induced cell death in organotypic rat brain slices. Prevents erastin induced accumulation of cytosolic and lipid reactive oxygen species.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₅H₂₂N₂O₂. Batch Molecular Weight: 262.35 Physical Appearance: Brown solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info: DMSO to 100 mM

ethanol 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 $45-60^{\circ}C$ water bath).

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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.

References:

Skouta et al (2014) FerroSTAT inhibit oxidative lipid damage and cell death in diverse disease models. J.Am.Chem.Soc. **136** 4551. PMID: 24592866.

Louandre et al (2013) Iron-dependent cell death of hepatocellular carcinoma cells exposed to sora. Int.J.Cancer 133 1732. PMID: 23505071.

Dixon et al (2012) Ferroptosis: an iron-dependent form of nonapoptotic cell death. Cell 149 1060. PMID: 22632970.

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