

Store at RT  
#19766**Ferrostatin-1**

5 mg


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**For Research Use Only. Not for Use in Diagnostic Procedures.****Background**

Ferrostatin-1 is an antioxidant that is a potent, selective inhibitor of erastin-induced ferroptosis with an EC<sub>50</sub> value of 60 nM (1,2). It effectively inhibits ferroptosis in cancer cells and prevents glutamate-induced cell death in rat hippocampal brain slices. In disease models, it has been shown to inhibit production of reactive oxygen species (ROS) and depletion of membrane lipids (1). Ferrostatin-1 has been shown to inhibit cell death in cell models of Huntington's disease, periventricular leukomalacia, and kidney dysfunction (1,2).

**Molecular Formula**C<sub>15</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub>**Molecular Weight**

262.4 g/mol

**Purity**

&gt;98%

**CAS**

347174-05-4

**Solubility**

Soluble in DMSO at 100 mg/mL or ethanol at 100 mg/mL.

**Storage**

Store lyophilized at ambient temperature, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 1 month to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

**Directions for Use**

Ferrostatin-1 is supplied as a lyophilized powder. For a 15 mM stock, reconstitute 5 mg of powder in 1.27 mL of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

**Background References**

1. Skouta, R. et al. (2014) *J Am Chem Soc* 136, 4551-6.
2. Dixon, S.J. et al. (2012) *Cell* 149, 1060-72.

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