

<b>Store at RT</b>  <b>#19766</b>	<b>Ferrostatin-1</b>	 <b>Orders:</b> 877-616-CELL (2355) orders@cellsignal.com  <b>Support:</b> 877-678-TECH (8324)  <b>Web:</b> info@cellsignal.com cellsignal.com
	5 mg	
3 Trask Lane   Danvers   Massachusetts   01923   USA		

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<b>Background</b>	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).
<b>Molecular Formula</b>	C <sub>15</sub> H <sub>22</sub> N <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight</b>	262.4 g/mol
<b>Purity</b>	>98%
<b>CAS</b>	347174-05-4
<b>Solubility</b>	Soluble in DMSO at 100 mg/mL or ethanol at 100 mg/mL.
<b>Storage</b>	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. <i>Aliquot to avoid multiple freeze/thaw cycles.</i>
<b>Directions for Use</b>	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.
<b>Background References</b>	<ol style="list-style-type: none"> <li>Skouta, R. et al. (2014) <i>J Am Chem Soc</i> 136, 4551-6.</li> <li>Dixon, S.J. et al. (2012) <i>Cell</i> 149, 1060-72.</li> </ol>

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