

RC363

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	RC363 is an inhibitor of ferroptosis and a derivative of the antioxidant and hypocholesterolemic agent probucol .It reduces 2,2-diphenyl-1-picrylhydrazyl radicals by approximately 40% in a cell-free assay when used at a concentration of 25 µM. RC363 prevents glutamate-induced toxicity in HT22 cultured hippocampal cells (IC50= 234.5 nM) but does not reduce oxidant levels in these cells. It increases the levels of glutathione peroxidase 1 (GPX1) and the activity of GPX in glutamate-challenged HT22 cells when used at a concentration of 3 µM. RC363 inhibits ferroptosis induced by the GPX4 inhibitor RSL3 in HT22 cells (IC50= 173.6 nM).
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Solubility Information

Solubility	Ethanol: 30 mg/mL PBS (pH 7.2): Insoluble DMF: 30 mg/mL Ethanol:PBS (pH 7.2) (1:1): Insoluble DMSO: 30 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Bueno, D.C., Canto, R.F.S., de Souza, V., et al.New probucol analogues inhibit ferroptosis, improve mitochondrial parameters, and induce glutathione peroxidase in HT22 cellsMol. Neurobiol.57(8)3273-3290(2020)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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