

Product Name: 1S,3R-RSL3

Catalog No.: 6118

Batch No.: 2

CAS Number: 1219810-16-8

IUPAC Name: (1S,3R)-Methyl 2-(2-chloroacetyl)-2,3,4,9-tetrahydro-1-[4-(methoxycarbonyl)phenyl]-1H-pyrido[3,4-b]indole-3-carboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₁ClN₂O₅·½H₂O

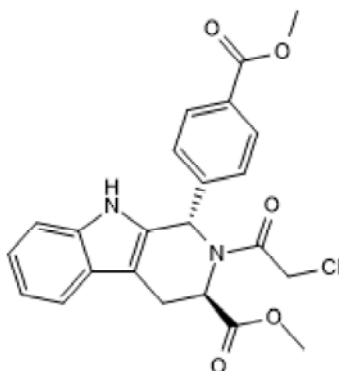
Batch Molecular Weight: 445.38

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

Chiral HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.03	4.87	6.29
Found	61.85	4.63	6.26

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

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Description:

Glutathione peroxidase 4 (GPX4) inhibitor. Induces ferroptosis. Increases lipid peroxidase levels in vitro. Inhibits tumor formation and progression in vivo.

Physical and Chemical Properties:

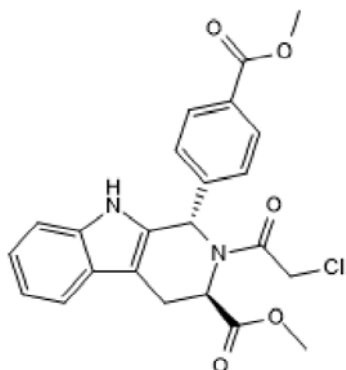
Batch Molecular Formula: C₂₃H₂₁ClN₂O₅·¼H₂O

Batch Molecular Weight: 445.38

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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°C water bath).

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.

Licensing Information:

Sold with the permission of Columbia University.

References:

Feng & Stockwell *et al* (2018) Unsolved mysteries: How does lipid peroxidation cause ferroptosis? *PLoS. Biol.* **16** e2006203. PMID: 29795546.

Yang *et al* (2016) Peroxidation of polyunsaturated fatty acids by lipoxygenases drives ferroptosis. *Proc.Natl.Acad.Sci.U.S.A.* **113** E4966. PMID: 27506793.

Yang *et al* (2014) Regulation of ferroptotic cancer cell death by GPX4. *Cell.* **156** 317. PMID: 24439385.

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