

Product Name: 1S,3R-RSL3

Catalog No.: 6118

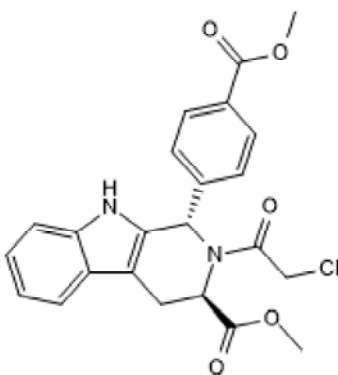
Batch No.: 1

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
Batch Molecular Weight: 440.88
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Dichloromethane:Methanol [39:1])
HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.66	4.8	6.35
Found	62.51	4.84	6.08

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

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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:

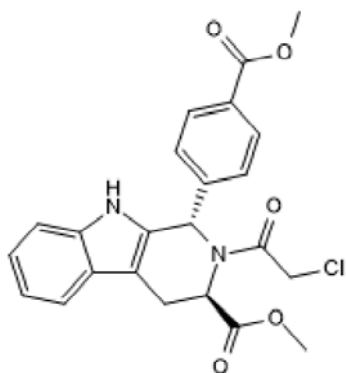
Batch Molecular Formula: C₂₃H₂₁ClN₂O₅

Batch Molecular Weight: 440.88

Physical Appearance: Yellow 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.

References:

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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