

## Certificate of Analysis

**Product Name:** SR 8278

**Catalog No.:** 4463

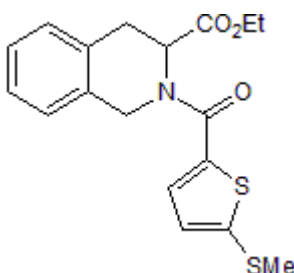
**Batch No.:** 2

CAS Number: 1254944-66-5

IUPAC Name: 1,2,3,4-Tetrahydro-2-[[5-(methylthio)-2-thienyl]carbonyl]-3-isoquinolinecarboxylic acid ethyl ester

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>19</sub>NO<sub>3</sub>S<sub>2</sub>  
**Batch Molecular Weight:** 361.48  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
ethanol to 50 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.52 (Ethyl acetate:Petroleum ether [3:7])  
**HPLC:** Shows 99% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	59.81	5.3	3.87
Found	59.78	5.37	3.86

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**Description:**

Rev-Erba antagonist; inhibits Rev-Erba transcriptional repression ( $EC_{50} = 0.47 \mu\text{M}$ ). Blocks activity of Rev-Erba agonist GSK 4112 (Cat. No. 3663) in HEK293 cells. Increases expression of glucose-regulating genes, G6Pase and PEPCK in HepG2 cells.

**Physical and Chemical Properties:**

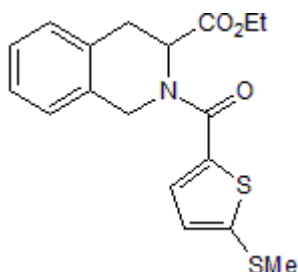
Batch Molecular Formula:  $C_{18}H_{19}NO_3S_2$

Batch Molecular Weight: 361.48

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Kojetin** *et al* (2011) Identification of SR8278, a synthetic antagonist of the nuclear heme receptor REV-ERB. *ACS Chem. Biol.* **6** 131. PMID: 21043485.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 50 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.

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