

Product Name: SR 9009

Catalog No.: 5855

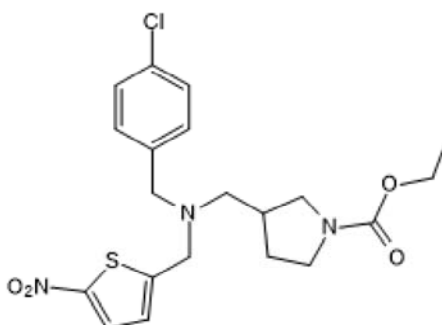
Batch No.: 1

CAS Number: 1379686-30-2

IUPAC Name: Ethyl 3-[[[(4-chlorophenyl)methyl][(5-nitro-2-thienyl)methyl]amino]methyl]-1-pyrrolidinecarboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₄ClN₃O₄S
Batch Molecular Weight: 437.94
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.85	5.52	9.6
Found	55.22	5.49	9.62

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

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Description:

Rev-Erba/β agonist (EC₅₀ = 710 nM; K_d = 800 nM). Alters circadian locomotor activity and core clock hypothalamic gene expression in mice. Induces weight loss in diet-induced obese mice. Brain penetrant.

Physical and Chemical Properties:

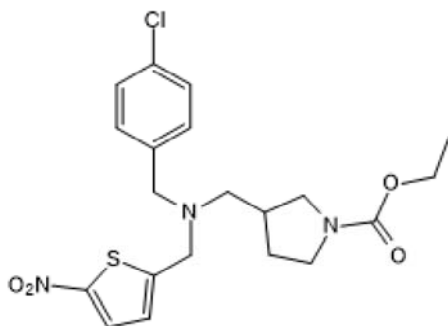
Batch Molecular Formula: C₂₀H₂₄ClN₃O₄S

Batch Molecular Weight: 437.94

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Shin et al (2012) Small molecule tertiary amines as agonists of the nuclear hormone receptor Rev-erba. *Bioorg.Med.Chem.Lett.* **22** 4413. PMID: 22633688 .

Solt et al (2012) Regulation of circadian behaviour and metabolism by synthetic REV-ERB agonists. *Nature* **485** 62. PMID: 22460951.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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.

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