

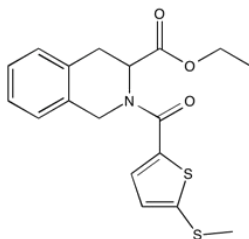
Catalog # 10-1506

SR-8278

1254944-66-5

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

Lot # S102004



Antagonist of the nuclear heme receptor, REV-ERB. Blocks the ability of the REV-ERB α agonist, GSK4112, to enhance REV-ERB-dependent repression in a cotransfection assay.¹ Decreases glucagon secretion and intracellular calcium signals in alphaTC1-9 cells and mouse primary alpha cells.² Enhances the expression of bone morphogenetic protein genes in rat uterus endometrium stromal cells.³ Shortens the period of circadian oscillations in mature granulosa cells stimulated with or without LH.⁴

- 1) Kojetin *et al.* (2011), *Identification of SR8278, a synthetic antagonist of the nuclear heme receptor REV-ERB*; *ACS Chem. Biol.* **6** 131
- 2) Vieira *et al.* (2013), *Involvement of the Clock Gene Rev-erb alpha in the Regulation of Glucagon Secretion in Pancreatic Alpha-cells*; *PLoS ONE* **8** e69939
- 3) Tasaki *et al.* (2015), *Inhibitory role of REV-ERB α in the expression of bone morphogenetic protein gene family in rat uterus endometrium stromal cells*; *Am. J. Physiol. Cell. Physiol.*, **308** C528
- 4) Chen *et al.* (2015), *Integration of the nuclear receptor REV-ERB α linked with circadian oscillators in the expressions of Alas1, Pparg1a, and Il6 genes in rat granulosa cells*; *Chronobiol. Int.*, **32** 739

PHYSICAL DATA

Molecular Weight:	361.49
Molecular Formula:	C ₁₈ H ₁₉ NO ₃ S ₂
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 60 mg/ml), Ethanol (up to 35 mg/ml)
Physical Description:	White waxy solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.