



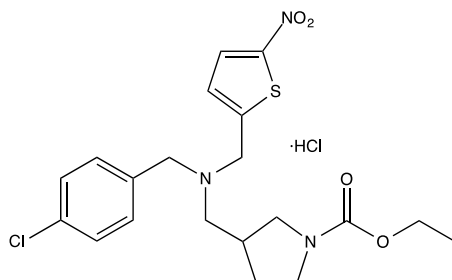
Catalog # 10-1511

SR9009

CAS# 1379686-30-2 (free base)

Ethyl 3-(((4-chlorobenzyl)((5-nitrophen-2-yl)methyl)amino)methyl)pyrrolidine-1-carboxylate hydrochloride

Lot # S102009



Agonist at nuclear receptor Rev-ErbA¹. Greatly diminishes VILI-induced lung edema, inflammatory cell infiltration and TNF α production in a rat lung injury model². Suppresses atherosclerosis in a mouse model³. Specifically lethal to cancer cells and oncogene-induced senescent cells with no effect on the viability of normal cells or tissues.⁴ Disrupts pain associated with osteoarthritis by reducing BMAL1 expression in *bmal1f/fNav1.8CreERT* mice.⁵

- 1) Solt *et al.* (2012) *Regulation of circadian behaviour and metabolism by synthetic REV-ERB agonists*; Nature **485** 62
- 2) Li *et al.* (2014) *A study on circadian rhythm disorder of rat lung tissue caused by mechanical ventilation induced lung injury*; Int.Immunopharmacol. **18** 249
- 3) Sitaula *et al.* (2015) *Suppression of atherosclerosis by synthetic REV-ERB agonist*; Biochem.Biophys.Res.Comm. **460** 566
- 4) Sulli *et al.* (2018) *Pharmacological activation of REV-ERBs is lethal in cancer and oncogene-induced senescence*; Nature, **553** 351
- 5) Das *et al.* (2018) *Pharmacological targeting of the mammalian clock reveals a novel analgesic for osteoarthritis-induced pain*; Gene **655** 1

PHYSICAL DATA

Molecular Weight: 474.40
Molecular Formula: C₂₀H₂₄ClN₃O₄S·HCl
Purity: >98% by TLC
NMR: (Conforms)
Solubility: DMSO (>25 mg/ml) or ethanol (up to 20 mg/ml)
Physical Description: Tan solid
Storage and Stability: Store as supplied 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.