

GW-501516, PPAR δ agonist

Catalog	Unit
TBI1542-5MG	5 mg
TBI1542-25MG	25 mg

Product Details

Formal Name: 2-[2-Methyl-4-[[[4-methyl-2-[4-(trifluoromethyl)phenyl]-5-thiazoyl]methyl]thio]phenoxy]acetic acid

Molecular Formula: C₂₁H₁₈F₃NO₃S₂

Formula Weight: 453.50

CAS Number: 317318-70-0

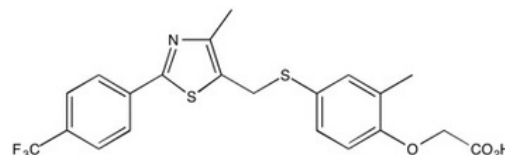
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 40 mg/ml) or in Ethanol (up to 20 mg/ml)

Storage: -20°C

Stability: \geq 1 year.



Applications

PPAR δ agonist

Functions

Potent and selective PPAR δ (NR1C2) agonist, EC₅₀=1.2 nM and 1000-fold selective over other PPAR subtypes. Induces apolipoprotein A1-mediated cholesterol efflux in vitro. Improves hematopoietic stem cell maintenance. Prevents downregulation of AMPK caused by a high-fat diet in liver and increases fatty acid oxidation. Upregulates human Sirt1 via Sp1 activation. Along with exercise, GW-501516 synergistically increases running endurance.

Application Procedures

First dissolved in DMSO (up to 40 mg/ml) or in Ethanol (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

For research use only.