

Product Name: GW 0742

Catalog No.: 2229

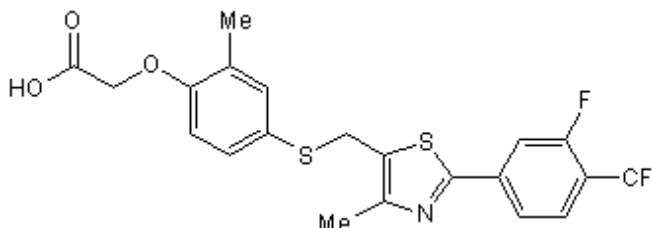
Batch No.: 4

CAS Number: 317318-84-6

IUPAC Name: [4-[[[2-[3-Fluoro-4-(trifluoromethyl)phenyl]-4-methyl-5-thiazolyl]methyl]thio]-2-methylphenoxy]acetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₁₇F₄NO₃S₂
Batch Molecular Weight: 471.49
Physical Appearance: White solid
Solubility: ethanol to 50 mM
DMSO to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Chloroform:Methanol [9:1])
HPLC: Shows 98.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.5	3.63	2.97
Found	53.19	3.61	3.11

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

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Description:

Potent and highly selective PPAR δ agonist. EC₅₀ values are 0.001, 1.1 and 2 μ M for transactivation of human PPAR δ , - α , and - γ receptors respectively. Neuroprotective in rat cerebellar granule neuronal cultures after brief (12-hour) exposure but exhibits inherent toxicity after prolonged (48-hour) incubation. Increases rate of fatty acid oxidation and protects against ischemia/reperfusion injury in neonatal and adult cardiomyocytes.

Physical and Chemical Properties:

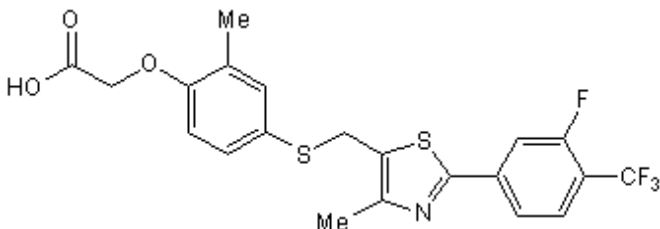
Batch Molecular Formula: C₂₁H₁₇F₄NO₃S₂

Batch Molecular Weight: 471.49

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Sznajdman *et al* (2003) Novel selective small molecule agonists for peroxisome proliferator-activated receptor δ (PPAR δ) - Synthesis and biological activity. *Bioorg.Med.Chem.Lett.* **13** 1517. PMID: 12699745.

Smith *et al* (2004) Effect of the peroxisome proliferator-activated receptor β activator GW0742 in rat cultured cerebellar granule neurons. *J.Neurosci.Res.* **77** 240. PMID: 15211590.

Yue *et al* (2008) In vivo activation of peroxisome proliferator-activated receptor- δ protects the heart from ischemia/reperfusion injury in Zucker fatty rats. *J.Pharm.Exp.Ther.* **325** 466.

Storage: Desiccate at +4°C

Solubility & Usage Info:

ethanol to 50 mM
DMSO 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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