

Product Name: GW 7647

Catalog No.: 1677

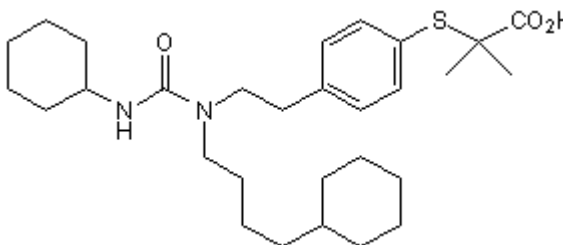
Batch No.: 3

CAS Number: 265129-71-3

IUPAC Name: 2-[[4-[2-[[[(Cyclohexylamino)carbonyl](4-cyclohexylbutyl)amino]ethyl]phenyl]thio]-2-methylpropanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₄₆N₂O₃S
Batch Molecular Weight: 502.75
Physical Appearance: White solid
Solubility: ethanol to 25 mM
DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.54 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.28	9.22	5.57
Found	69.59	9.19	5.55

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

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Description:

Potent and highly selective PPAR α agonist (EC₅₀ values are 6, 1100 and 6200 nM for human PPAR α , PPAR γ and PPAR δ receptors respectively). Modulates oleate metabolism and mitochondrial enzyme gene expression in mature myotubules in vitro. Has lipid-lowering effects following oral administration in vivo. Reduces NO production in macrophages; exhibits anti-inflammatory properties.

Physical and Chemical Properties:

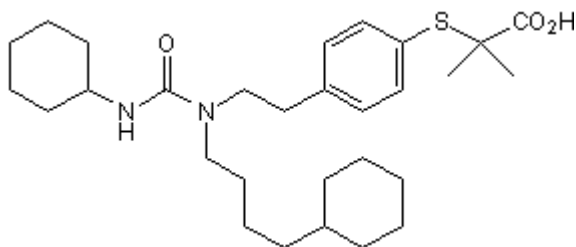
Batch Molecular Formula: C₂₉H₄₆N₂O₃S

Batch Molecular Weight: 502.75

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 25 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.

References:

Paukeri et al (2007) PPAR α agonists inhibit nitric oxide production by enhancing iNOS degradation in LPS-treated macrophages. *Br.J.Pharmacol.* **152** 1081. PMID: 17891158.

Cunard et al (2002) Regulation of cytokine expression by ligands of peroxisome proliferator activated receptors. *J.Immunol.* **168** 2795. PMID: 11884448.

Muio et al (2002) Peroxisome proliferator-activated receptor- α regulates fatty acid utilization in primary human skeletal muscle cells. *Diabetes* **51** 901. PMID: 11916905.

Brown et al (2001) Identification of a subtype selective human PPAR α agonist through parallel-array synthesis. *Bioorg.Med.Chem.Lett.* **11** 1225. PMID: 11354382.

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