

Certificate of Analysis

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Product Name: nTZDpa

Catalog No.: 2150

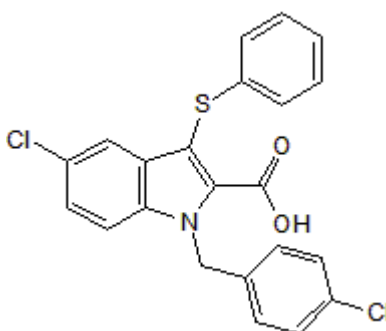
Batch No.: 1

CAS Number: 118414-59-8

IUPAC Name: 5-Chloro-1-[(4-chlorophenyl)methyl]-3-(phenylthio)-1*H*-indole-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₂ H ₁₅ Cl ₂ NO ₂ S
Batch Molecular Weight:	428.33
Physical Appearance:	Pale yellow solid
Solubility:	DMSO to 100 mM
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

Melting Point:	Between 195 - 200°C
HPLC:	Shows >98.4% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

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

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IUPAC Name: 5-Chloro-1-[(4-chlorophenyl)methyl]-3-(phenylthio)-1*H*-indole-2-carboxylic acid

Description:

Potent, selective non-thiazolidinedione PPAR γ partial agonist (EC₅₀ = 57 nM); produces ~25% maximum efficacy. Antagonizes full agonist activity by ~60% (IC₅₀ ~ 285 nM). Displays no activity at PPAR α or PPAR δ receptors. Produces altered receptor conformation, and regulates adipocyte development and gene expression, in a differential manner to full PPAR γ agonists. Modulates metabolism and insulin sensitivity without causing cardiac hypertrophy in mice in vivo.

Physical and Chemical Properties:

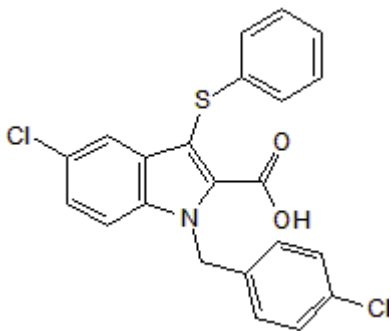
Batch Molecular Formula: C₂₂H₁₅Cl₂NO₂S

Batch Molecular Weight: 428.33

Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Berger et al (2003) Distinct properties and advantages of a novel peroxisome proliferator-activated protein γ selective modulator. *Mol.Endocrinol.* **17** 662. PMID: 12554792.

Storage: Store at +4°C

Solubility & Usage Info:

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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