

Certificate of Analysis

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Product Name: SR 1664

Catalog No.: 4409

Batch No.: 3

CAS Number: 1338259-05-4

IUPAC Name: 4'-[[[2,3-Dimethyl-5-[[[(1S)-1-(4-nitrophenyl)ethyl]amino]carbonyl]-1*H*-indol-1-yl]methyl]-[1,1'-biphenyl]-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₃H₂₉N₃O₅·½H₂O

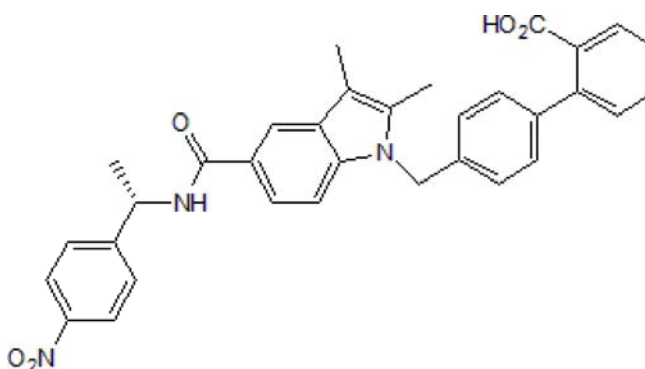
Batch Molecular Weight: 556.61

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.34 (Dichloromethane:Ethyl acetate [1:1])

HPLC: Shows 97.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.21	5.43	7.55
Found	71.32	5.4	7.34

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

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Description:

Antidiabetic agent; binds to PPAR γ and potently inhibits Cdk5-mediated PPAR γ phosphorylation (IC_{50} = 80 nM; K_i = 28.67 nM) without exhibiting PPAR γ agonist activity. Does not inhibit Cdk5-dependent phosphorylation of Rb. Reduces fasting insulin levels and improves insulin sensitivity in a mouse model of diabetes.

Physical and Chemical Properties:

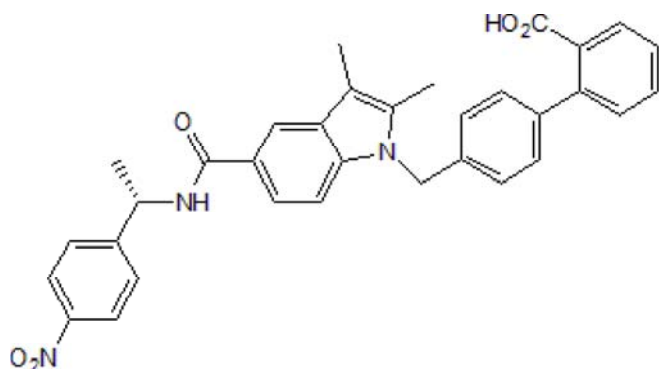
Batch Molecular Formula: C₃₃H₂₉N₃O₅·½H₂O

Batch Molecular Weight: 556.61

Physical Appearance: Yellow solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Norris and Sigmund (2012) A second chance for a PPAR γ targeted therapy? *Circ.Res.* **110** 8. PMID: 22223206.

Choi et al (2011) Antidiabetic actions of a non-agonist PPAR γ ligand blocking Cdk5-mediated phosphorylation. *Nature* **477** 477. PMID: 21892191.

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