

Certificate of Analysis

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Product Name: AZ 11645373

Catalog No.: 3317

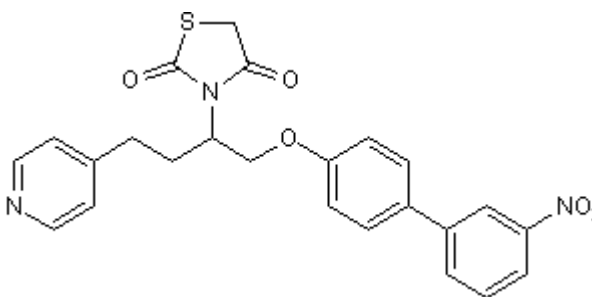
Batch No.: 3

CAS Number: 227088-94-0

IUPAC Name: 3-[1-[[[3'-Nitro[1,1'-biphenyl]-4-yl]oxy]methyl]-3-(4-pyridinyl)propyl]-2,4-thiazolidinedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₁N₃O₅S
Batch Molecular Weight: 463.51
Physical Appearance: Off White solid
Solubility: DMSO to 10 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Ethyl acetate)
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.19	4.57	9.07
Found	62.29	4.63	9.08

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

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Description:

Potent and selective human P2X₇ antagonist (K_B values are 5 - 7 and > 10,000 nM at hP2X₇ and rP2X₇ respectively) that is completely without effect at all other P2X subtypes. Inhibits BzATP-mediated calcium influx and inhibits ATP-mediated IL-1β release in vitro (K_B values are 15 and 92 nM respectively).

Physical and Chemical Properties:

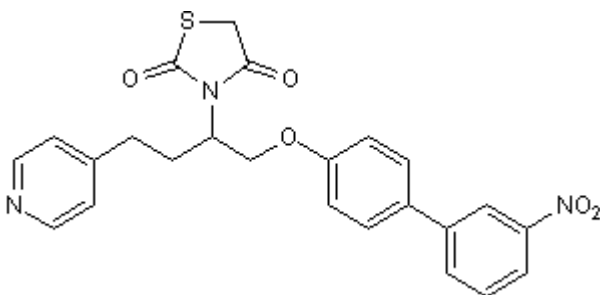
Batch Molecular Formula: C₂₄H₂₁N₃O₅S

Batch Molecular Weight: 463.51

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Alcaraz et al (2003) Novel P2X₇ receptor antagonists. *Bioorg.Med.Chem.Letts.* **13** 4043.

Stokes et al (2006) Characterization of a selective and potent antagonist of human P2X₇ receptors, AZ11645373. *Br.J.Pharmacol.* **149** 880. PMID: 17031385.

Michel et al (2009) Mechanism of action of species-selective P2X₇ receptor antagonists. *Br.J.Pharmacol.* **156** 1312. PMID: 19309360.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 10 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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