

Product Name: GW 627368

Catalog No.: 4668

Batch No.: 1

CAS Number: 439288-66-1

IUPAC Name: 4-(4-,9-Diethoxy-1,3-dihydro-1-oxo-2*H*-benz[*f*]isoindol-2-yl)-*N*-(phenylsulfonyl)benzeneacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₂₈N₂O₆S·¼H₂O

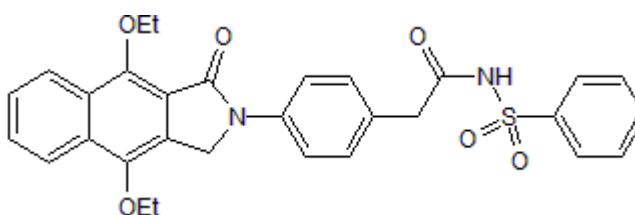
Batch Molecular Weight: 549.12

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.25 (Dichloromethane:Methanol [95:5])

HPLC: Shows >99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.62	5.23	5.1
Found	65.53	5.17	5.18

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

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Description:

Selective prostanoid EP₄ receptor competitive antagonist with additional affinity at TP receptors (pK_i values are 7.0 and 6.8 in competition radioligand bioassays). Affinity for all other prostanoid receptors is < 5.3. Inhibits U-46619 induced human platelet aggregation.

Physical and Chemical Properties:

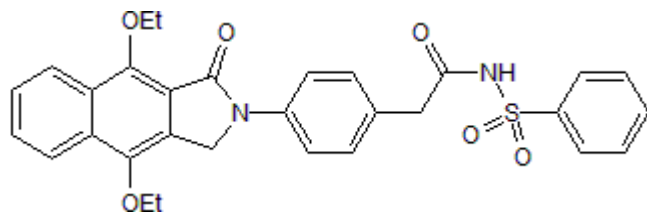
Batch Molecular Formula: C₃₀H₂₈N₂O₆S.¼H₂O

Batch Molecular Weight: 549.12

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°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.

References:

Jones and Chan *et al* (2005) Investigation of the agonist activity of prostacyclin analogues on prostanoid EP₄ receptors using GW 627368 and taprostene: evidence for species differences. *Prostaglandins Leukot.Essent.Fatty.Acids.* **72** 289. PMID: 15763441.

Wilson *et al* (2006) GW627368X ((N-{2-[4-(4,9-diethoxy-1-oxo-1,3-dihydro-2H-benzo[*f*]isoindol-2-yl)phenyl]acetyl} benzene sulphonamide): a novel, potent and selective prostanoid EP₄ receptor antagonist. *Br.J.Pharmacol.* **148** 326. PMID: 16604093.

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