

**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:** C<sub>30</sub>H<sub>28</sub>N<sub>2</sub>O<sub>6</sub>S·¼H<sub>2</sub>O

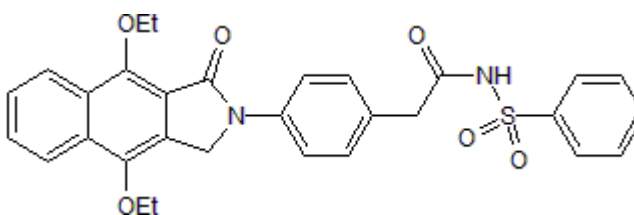
**Batch Molecular Weight:** 549.12

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.25 (Dichloromethane:Methanol [95:5])

**HPLC:** Shows >99.8% purity

**<sup>1</sup>H 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

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**Description:**

Selective prostanoid EP<sub>4</sub> receptor competitive antagonist with additional affinity at TP receptors (pK<sub>i</sub> 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:**

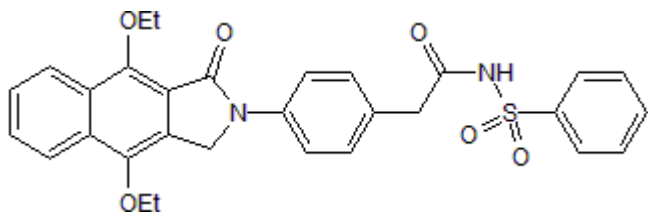
Batch Molecular Formula: C<sub>30</sub>H<sub>28</sub>N<sub>2</sub>O<sub>6</sub>S. ¼H<sub>2</sub>O

Batch Molecular Weight: 549.12

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Jones and Chan** *et al* (2005) Investigation of the agonist activity of prostacyclin analogues on prostanoid EP<sub>4</sub> 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 EP<sub>4</sub> receptor antagonist. *Br.J.Pharmacol.* **148** 326. PMID: 16604093.

**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.

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