

## Certificate of Analysis

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**Product Name:** PIT

**Catalog No.:** 1682

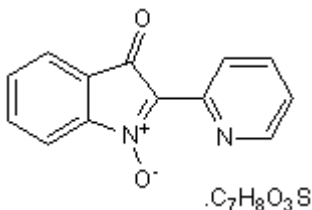
**Batch No.:** 2

CAS Number: 56583-49-4

IUPAC Name: 2-(2-Pyridinyl)-(3H)-indol-3-one-1-oxide 4-methylbenzenesulfonate

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>13</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>.C<sub>7</sub>H<sub>8</sub>O<sub>3</sub>S  
**Batch Molecular Weight:** 396.42  
**Physical Appearance:** Red crystalline solid  
**Solubility:** ethanol to 15 mM with gentle warming  
DMSO to 80 mM  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.55 (Ethyl acetate)  
**Melting Point:** 208 - 210°C  
**HPLC:** Shows >99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	60.6	4.07	7.07
Found	60.46	4.05	6.97

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**Description:**

Purinergic P2Y receptor ligand. Displays irreversible antagonism at P2Y receptors in some smooth muscles but potentiates responses to ATP in other systems (chick brain recombinant P2Y<sub>1</sub> receptor and sympathetic/purinergic nerve stimulation).

**Physical and Chemical Properties:**

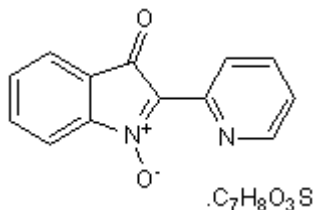
Batch Molecular Formula: C<sub>13</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>.C<sub>7</sub>H<sub>8</sub>O<sub>3</sub>S

Batch Molecular Weight: 396.42

Physical Appearance: Red crystalline solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

ethanol to 15 mM with gentle warming  
DMSO to 80 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:**

**Spedding et al** (1975) Antagonism of adenosine 5'-triphosphate-induced relaxation by 2,2'-pyridylisatogen in the taenia of guinea-pig caecum. *Br.J.Pharmacol.* **53** 575. PMID: 1148500.

**King et al** (1996) Potentiation by 2,2'-pyridylisatogen tosylate of ATP-responses at a recombinant P<sub>2Y1</sub> purinoceptor. *Br.J.Pharmacol.* **117** 1111. PMID: 8882604.

**Ren and Burnstock** (1997) Prominent sympathetic purinergic vasoconstriction in the rabbit splenic artery: potentiation by 2,2'-pyridylisatogen tosylate. *Br.J.Pharmacol.* **120** 530. PMID: 9031760.

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