

## Certificate of Analysis

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**Product Name:** OXSI 2

**Catalog No.:** 6012

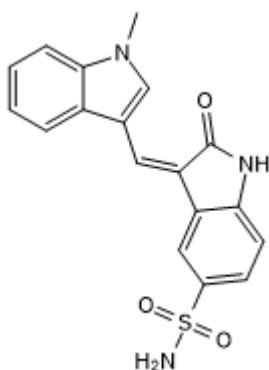
**Batch No.:** 1

**CAS Number:** 622387-85-3

**IUPAC Name:** 2,3-Dihydro-3-[(1-methyl-1*H*-indol-3-yl)methylene]-2-oxo-1*H*-indole-5-sulfonamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>15</sub>N<sub>3</sub>O<sub>3</sub>S  
**Batch Molecular Weight:** 353.39  
**Physical Appearance:** Orange solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows >98.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	61.18	4.28	11.89
Found	61.03	4.25	11.8

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

## Product Information

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### Description:

Potent Syk kinase inhibitor ( $IC_{50}$  = 14 nM). Inhibits assembly of NLRP3 inflammasomes induced by Nigericin (Cat.No. 4312). Also inhibits the activation of caspase-1, IL-1 $\beta$  processing and release, mitochondrial ROS generation and pyroptotic cell death in mouse macrophage cells.

### Physical and Chemical Properties:

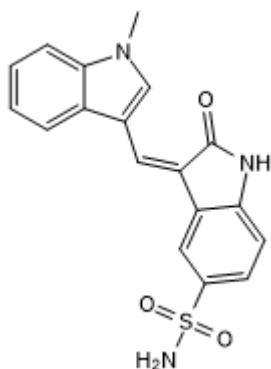
Batch Molecular Formula: C<sub>18</sub>H<sub>15</sub>N<sub>3</sub>O<sub>3</sub>S

Batch Molecular Weight: 353.39

Physical Appearance: Orange solid

**Minimum Purity:** >98%

### Batch Molecular Structure:



**Storage:** Store at -20°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

### 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:

**Yaron *et al*** (2016) The oxindole Syk inhibitor OXSI-2 blocks nigericin-induced inflammasome signaling and pyroptosis independent of potassium efflux. *Biochem.Biophys.Res.Comm.* **472** 545. PMID: 26970308.

**Lai *et al*** (2003) Potent small molecule inhibitors of spleen tyrosine kinase (Syk). *Bioorg.Med.Chem.Lett.* **13** 3111. PMID: 12941345.

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