

## Certificate of Analysis

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**Product Name:** JW 67

**Catalog No.:** 4651

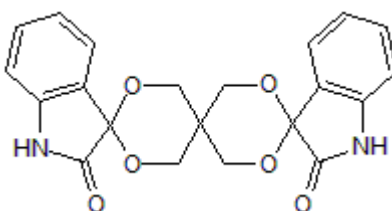
**Batch No.:** 1

CAS Number: 442644-28-2

IUPAC Name: Trispiro[3*H*-indole-3,2'-[1,3]dioxane-2'',3'''-[3*H*]indole]-2,2'''(1*H*,1'''*H*)-dione

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>21</sub>H<sub>18</sub>N<sub>2</sub>O<sub>6</sub>  
**Batch Molecular Weight:** 394.38  
**Physical Appearance:** Beige solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 97.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	63.95	4.6	7.1
Found	63.7	4.81	6.91

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

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**Description:**

Inhibitor of canonical Wnt pathway signaling (IC<sub>50</sub> = 1.17 μM); targets the β-catenin destruction complex (GSK-3β/AXIN/APC) to induce β-catenin degradation. Selective for the canonical Wnt pathway over the Sonic hedgehog (Shh) and NF-κB pathways. Blocks G<sub>1</sub>/S cell cycle progression in colorectal cancer (CRC) cell lines (GI<sub>50</sub> = 7.8 μM).

**Physical and Chemical Properties:**

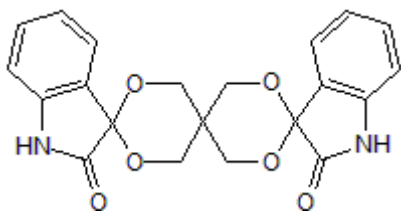
Batch Molecular Formula: C<sub>21</sub>H<sub>18</sub>N<sub>2</sub>O<sub>6</sub>

Batch Molecular Weight: 394.38

Physical Appearance: Beige solid

**Minimum Purity:** >97%

**Batch Molecular Structure:**



**References:**

**Waler *et al*** (2011) Novel synthetic antagonists of canonical Wnt signaling inhibit colorectal cancer cell growth. *Cancer Res.* **71** 197. PMID: 21199802.

**Shultz *et al*** (2012) [1,2,4]triazol-3-ylsulfanylmethyl)-3-phenyl-[1,2,4]oxadiazoles: antagonists of the Wnt pathway that inhibit tankyrases 1 and 2 via novel adenosine pocket binding. *J.Med.Chem.* **55** 1127. PMID: 22260203.

**Storage:** Store at +4°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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