

Product Name: JW 67

Catalog No.: 4651

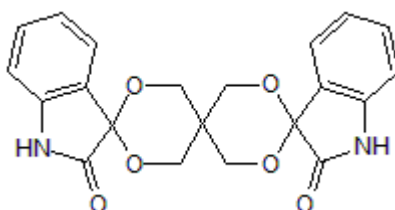
Batch No.: 1

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: C₂₁H₁₈N₂O₆
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
¹H 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 (IC₅₀ = 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 G₁/S cell cycle progression in colorectal cancer (CRC) cell lines (GI₅₀ = 7.8 μM).

Physical and Chemical Properties:

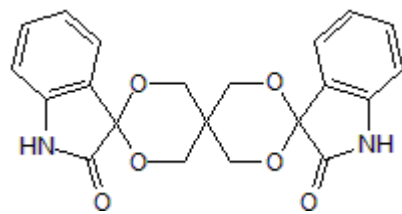
Batch Molecular Formula: C₂₁H₁₈N₂O₆

Batch Molecular Weight: 394.38

Physical Appearance: Beige solid

Minimum Purity: >97%

Batch Molecular Structure:



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.

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.

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