

Product Name: JW 74

Catalog No.: 5653

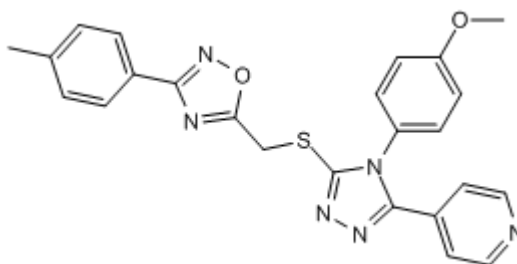
Batch No.: 1

CAS Number: 863405-60-1

IUPAC Name: 4-[4-(4-Methoxyphenyl)-5-[[[3-(4-methylphenyl)-1,2,4-oxadiazol-5-yl]methyl]thio]-4H-1,2,4-triazol-3-yl]-pyridine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₀N₆O₂S
Batch Molecular Weight: 456.52
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.14	4.42	18.41
Found	63.25	4.4	18.42

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

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Description:

Inhibitor of canonical Wnt signaling ($IC_{50} = 790$ nM). Targets the β -catenin destruction complex (GSK-3 β /AXIN/APC). Increases AXIN2 and decreases active β -catenin levels in colorectal cancer (CRC) cells. Also arrests cell cycle in G₁ and inhibits proliferation of CRC cells in vitro. Inhibits tumor growth and formation in mouse models.

Physical and Chemical Properties:

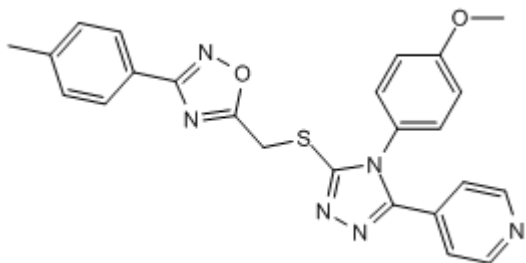
Batch Molecular Formula: C₂₄H₂₀N₆O₂S

Batch Molecular Weight: 456.52

Physical Appearance: Off White solid

Minimum Purity: >99%

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.

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