

Product Name: JW 55

Catalog No.: 4514

Batch No.: 1

CAS Number: 664993-53-7

IUPAC Name: *N*-[4-[[[4-(4-methoxyphenyl)-2H-pyran-4-yl]methyl]amino]carbonyl]phenyl]-2-furancarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₆N₂O₅·¼H₂O

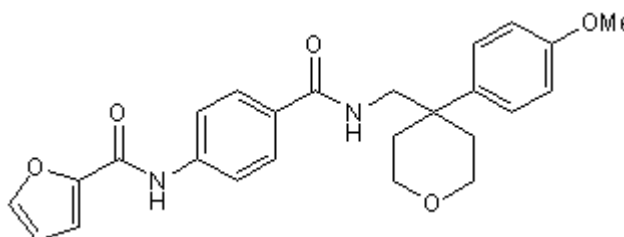
Batch Molecular Weight: 438.98

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.4	6.08	6.38
Found	68.26	6.09	6.31

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

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IUPAC Name: *N*-[4-[[[4-(4-methoxyphenyl)-2H-pyran-4-yl]methyl]amino]carbonyl]phenyl]-2-furancarboxamide

Description:

Inhibitor of the PARP domain of tankyrase 1 and 2 (TNKS1/2). Activity results in stabilization of Axin2 and increased degradation of β -catenin; inhibits the β -catenin signaling pathway. Also shown to decrease canonical Wnt signaling in SW480 and HCT-15 colon carcinoma cell lines; reduces cell cycle progression and proliferation in SW480 cells in vitro.

Physical and Chemical Properties:

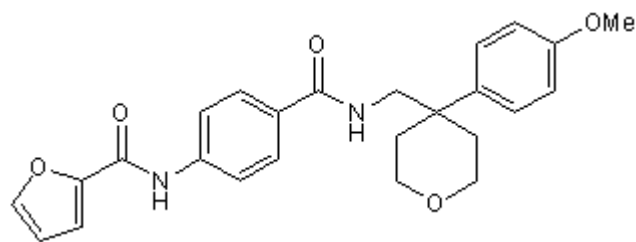
Batch Molecular Formula: $C_{25}H_{26}N_2O_5 \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 438.98

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Waler et al (2012) A novel tankyrase inhibitor decreases canonical Wnt signaling in colon carcinoma cells and reduces tumor growth in conditional APC mutant mice. *Cancer Res.* **72** 2822. PMID: 22440753.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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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