

# Certificate of Analysis

**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:** C<sub>25</sub>H<sub>26</sub>N<sub>2</sub>O<sub>5</sub>·¼H<sub>2</sub>O

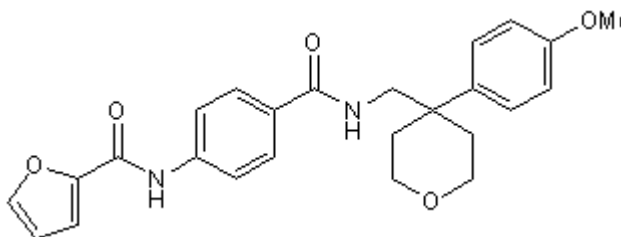
**Batch Molecular Weight:** 438.98

**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

**<sup>1</sup>H 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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**Description:**

Inhibitor of the PARP domain of tankyrase 1 and 2 (TNKS1/2). Activity results in stabilization of Axin2 and increased degradation of  $\beta$ -catenin; inhibits the  $\beta$ -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:**

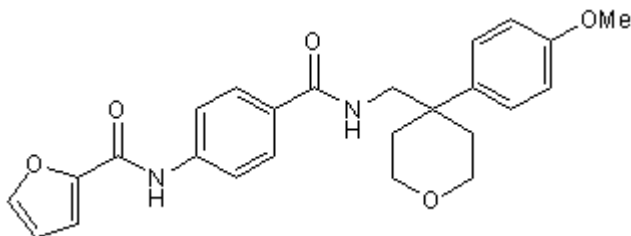
Batch Molecular Formula: C<sub>25</sub>H<sub>26</sub>N<sub>2</sub>O<sub>5</sub> · ¼H<sub>2</sub>O

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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