

**Product Name:** WIKI4

**Catalog No.:** 4855

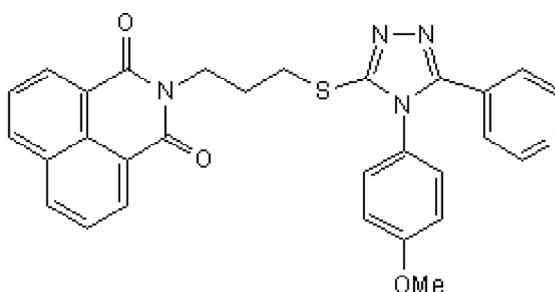
**Batch No.:** 3

CAS Number: 838818-26-1

IUPAC Name: 2-[3-[[4-(4-Methoxyphenyl)-5-(4-pyridinyl)-4H-1,2,4-triazol-3-yl]thio]propyl]-1H-benz[de]isoquinoline-1,3(2H)-dione

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>29</sub>H<sub>23</sub>N<sub>5</sub>O<sub>3</sub>S.  
**Batch Molecular Weight:** 521.59  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 10 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.78	4.44	13.43
Found	66.89	4.43	13.21

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

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**Description:**

WIKI4 is an inhibitor of Wnt/ $\beta$ -catenin signaling ( $EC_{50} \sim 75$  nM). Inhibits auto-ADP-ribosylation of tankyrase 2 (TNKS2) ( $IC_{50} \sim 15$  nM); prevents the ubiquitination and degradation of axin. WIKI4 inhibits expression of  $\beta$ -catenin target genes in cancer cell lines as well as in human embryonic stem cells (ESC). WIKI4 synthesized to Ancillary Material Grade also available.

**Physical and Chemical Properties:**

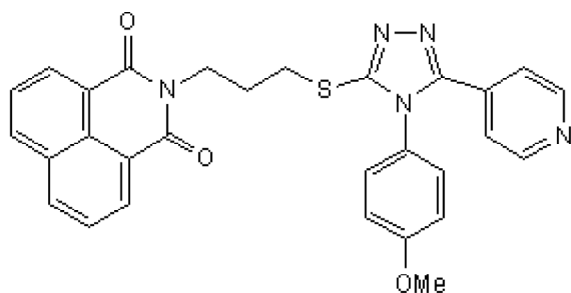
Batch Molecular Formula:  $C_{29}H_{23}N_5O_3S$ .

Batch Molecular Weight: 521.59

Physical Appearance: White solid

**Minimum Purity:**  $\geq 98\%$

**Batch Molecular Structure:**



**Storage:** Store at  $-20^{\circ}C$

**Solubility & Usage Info:**

DMSO to 10 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  $45-60^{\circ}C$  water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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  $-20^{\circ}C$  or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

James *et al* (2012) WIKI4, a novel inhibitor of tankyrase and Wnt/ $\beta$ -catenin signaling. PLoS One 7 e50457. PMID: 23227175.

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**bio-techne.com**

info@bio-techne.com  
techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com  
Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors  
Tel: +1 612 379 2956