

Certificate of Analysis

www.tocris.com

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: C₂₉H₂₃N₅O₃S.

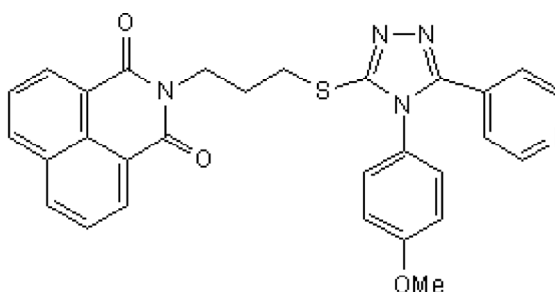
Batch Molecular Weight: 521.59

Physical Appearance: White solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98% purity

¹H 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

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

Product Information

www.tocris.com

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

Description:

WIKI4 is an inhibitor of Wnt/ β -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 β -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:

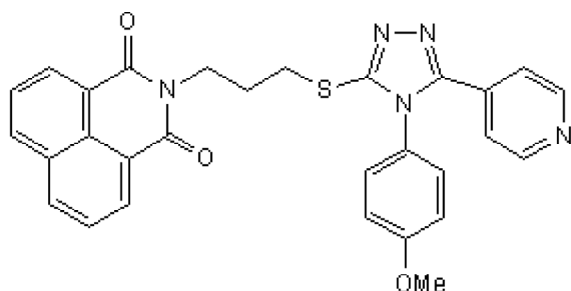
Batch Molecular Formula: $C_{29}H_{23}N_5O_3S$.

Batch Molecular Weight: 521.59

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at -20°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 $45-60^{\circ}\text{C}$ 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°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/ β -catenin signaling. PLoS One 7 e50457. PMID: 23227175.

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

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