

Product Name: Centrinone B

Catalog No.: 5690

Batch No.: 3

CAS Number: 1798871-31-4

IUPAC Name: 2-[[2-Fluoro-4-[[[(2-fluoro-3-nitrophenyl)methyl]sulfonyl]phenyl]thio]-5-methoxy-*N*-(5-methyl-1*H*-pyrazol-3-yl)-6-(1-piperidiny)-4-pyrimidinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₇F₂N₇O₅S₂.

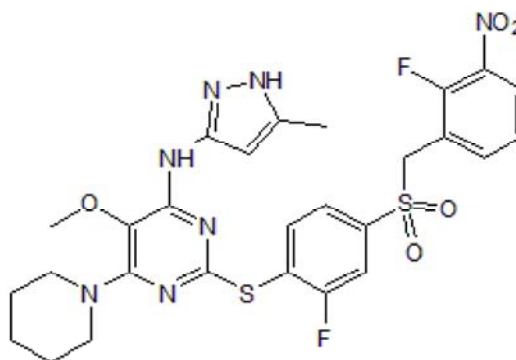
Batch Molecular Weight: 631.67

Physical Appearance: Yellow solid

Solubility: DMSO to 50 mM

Storage: Store at -20°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	51.34	4.31	15.52
Found	51.36	4.31	15.5

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

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Description:

Centrinone B is a high affinity and selective PLK4 inhibitor ($K_i = 0.6$ nM). Exhibits >2000-fold selectivity for PLK4 over Aurora A and Aurora B. Depletes centriole and centrosome levels in vitro. Induces cell cycle arrest in normal human cell lines in a p53-dependent manner.

Physical and Chemical Properties:

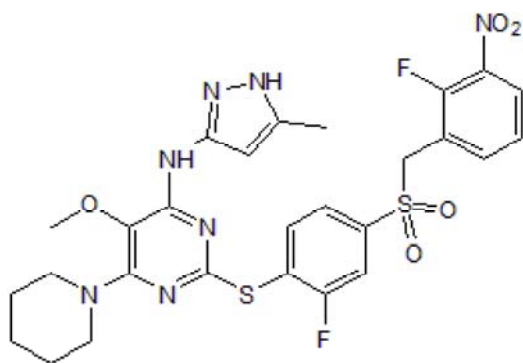
Batch Molecular Formula: $C_{27}H_{27}F_2N_7O_5S_2$.

Batch Molecular Weight: 631.67

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 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.

Licensing Information:

Sold with the permission of the Ludwig Institute for Cancer Research Ltd

References:

Wong *et al* (2015) Reversible centriole depletion with an inhibitor of Polo-like kinase 4. *Science* **348** 1155. PMID: 25931445.

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