

**Product Name:** SNS 032

**Catalog No.:** 4075

**Batch No.:** 1

CAS Number: 345627-80-7

IUPAC Name: *N*-[5-[[[5-(1,1-Dimethylethyl)-2-oxazolyl]methyl]thio]-2-thiazolyl]-4-piperidinecarboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>24</sub>N<sub>4</sub>O<sub>2</sub>S<sub>2</sub>·½H<sub>2</sub>O

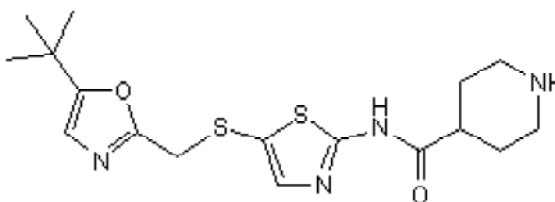
**Batch Molecular Weight:** 389.54

**Physical Appearance:** White solid

**Solubility:** DMSO to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.1 (Chloroform:Methanol [9:1])

**HPLC:** Shows 99.5% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	52.42	6.47	14.38
Found	52.12	6.42	14.34

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

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**Description:**

SNS 032 is a cyclin dependent kinase (cdk) inhibitor (reported IC<sub>50</sub> values are 0.004 - 0.048, 0.0045 - 0.05, 0.062 - 0.29, 0.2-0.48, 0.4 and 0.45 μM for cdk9, cdk2, cdk7, cdk1, cdk5 and cdk4, respectively). Displays no activity against 190 additional kinases (IC<sub>50</sub> >1 μM). Arrests the cell cycle at G<sub>2</sub>/M; inhibits transcription, proliferation and colony formation, and induces apoptosis in RPMI-8226 multiple myeloma cells. Prevents tumor cell-induced VEGF secretion and in vitro angiogenesis.

**Physical and Chemical Properties:**

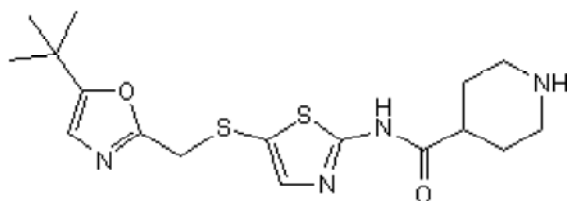
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Batch Molecular Weight: 389.54

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**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.

**References:**

**Jorda et al** (2018) How selective are pharmacological inhibitors of cell-cycle-regulating cyclin-dependent kinases? *J.Med.Chem.* **61** 9105. PMID: 30234987.

**Chen et al** (2010) Responses in mantle cell lymphoma cells to SNS-032 depend on the biological context of each cell line. *Cancer Res.* **70** 6587. PMID: 20663900.

**Conroy et al** (2009) SNS-032 is a potent and selective CDK 2, 7 and 9 inhibitor that drives target modulation in patient samples. *Cancer Chemother.Pharmacol.* **64** 723. PMID: 19169685.

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