

# Certificate of Analysis

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**Product Name:** SC 26196

**Catalog No.:** 4189

**Batch No.:** 1

CAS Number: 218136-59-5

IUPAC Name:  $\alpha,\alpha$ -Diphenyl-4-[(3-pyridinylmethylene)amino]-1-piperazinepentanenitrile

## 1. PHYSICAL AND CHEMICAL PROPERTIES

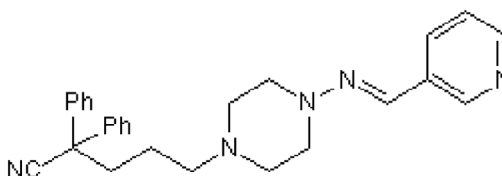
**Batch Molecular Formula:** C<sub>27</sub>H<sub>29</sub>N<sub>5</sub>·½H<sub>2</sub>O

**Batch Molecular Weight:** 432.56

**Physical Appearance:** Beige solid

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 96.4% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	74.97	6.99	16.19
Found	74.79	6.81	15.88

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

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**Description:**

SC 26196 is a selective fatty acid desaturase 2 (FADS2, also known as  $\Delta^6$  desaturase) inhibitor ( $IC_{50}$  = 0.2  $\mu$ M in vitro). Displays selectivity over FADS1 and stearoyl-CoA 9-desaturase ( $\Delta^5$  desaturase and SCD-1/ $\Delta^9$  desaturase, respectively) ( $IC_{50}$  values are >200  $\mu$ M in vitro). Exhibits anti-inflammatory properties in a mouse edema model. Eliminates CSCs from ovarian cancer cell lines and inhibits sphere formation in vitro.

**Physical and Chemical Properties:**

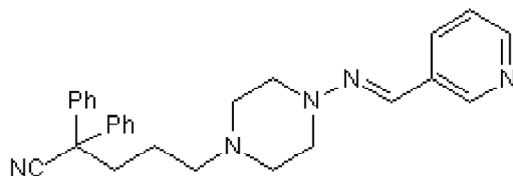
Batch Molecular Formula:  $C_{27}H_{29}N_5 \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 432.56

Physical Appearance: Beige solid

**Minimum Purity:**  $\geq 95\%$

**Batch Molecular Structure:**



**References:**

**Li *et al*** (2017) Lipid desaturation is a metabolic marker and therapeutic target of ovarian cancer stem cells. *Cell Stem Cell* **20** 1. PMID: 28041894.

**Zhang *et al*** (2010) A multiplexed cell assay in HepG2 cells for the identification of delta-5, delta-6, and delta-9 desaturase and elongase inhibitors. *J.Biomol.Screen.* **15** 169. PMID: 20086206.

**Hansen-Petrik *et al*** (2002) Selective inhibition of delta-6 desaturase impedes intestinal tumorigenesis. *Cancer Lett.* **175** 157. PMID: 11741743.

**Storage:** Store at -20°C

**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. \*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.

**Licensing Information:**

Sold for research purposes under agreement from Pfizer Inc.

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