

**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**

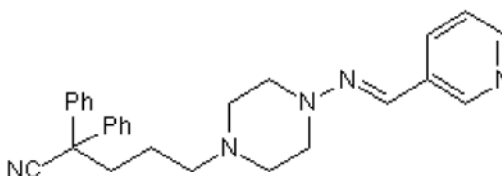
**Batch Molecular Formula:** C<sub>27</sub>H<sub>29</sub>N<sub>5</sub>·½H<sub>2</sub>O

**Batch Molecular Weight:** 432.56

**Physical Appearance:** Beige solid

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.9% 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

**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

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**Description:**

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:**

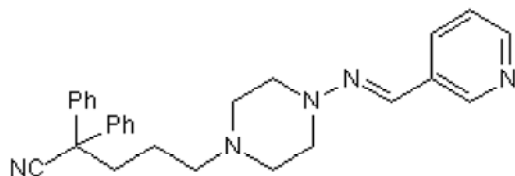
Batch Molecular Formula:  $C_{27}H_{29}N_5 \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 432.56

Physical Appearance: Beige solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**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. 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 for research purposes under agreement from Pfizer Inc.

**References:**

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

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.

Obukowicz *et al* (1998) Novel, selective  $\Delta^6$  or  $\Delta^5$  fatty acid desaturase inhibitors as antiinflammatory agents in mice. *J.Pharmacol.Exp.Ther.* **287** 157. PMID: 9765335.

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