

Product Name: SC 26196

Catalog No.: 4189

Batch No.: 1

CAS Number: 218136-59-5

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

1. PHYSICAL AND CHEMICAL PROPERTIES

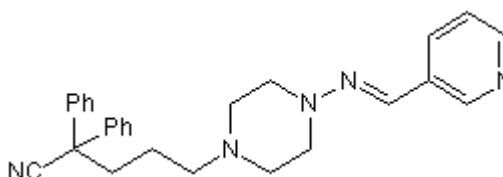
Batch Molecular Formula: $C_{27}H_{29}N_5 \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 432.56

Physical Appearance: Beige solid

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity

¹H 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

Tocris Bioscience is an R&D Systems company
 USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
 www.RnDSYSTEMS.com

R&D
SYSTEMS®

Product Name: SC 26196

Catalog No.: 4189

Batch No.: 1

CAS Number: 218136-59-5

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

Description:

Selective $\Delta 6$ desaturase inhibitor (IC_{50} = 0.2 μ M in vitro). Displays selectivity over $\Delta 5$ and $\Delta 9$ desaturases (IC_{50} values are >200 μ M in vitro). Exhibits anti-inflammatory properties in a mouse edema model.

Physical and Chemical Properties:

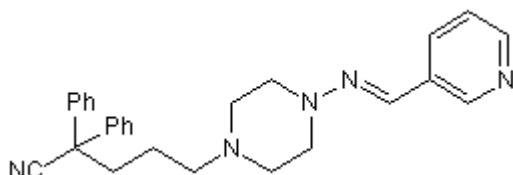
Batch Molecular Formula: $C_{27}H_{29}N_5 \cdot \frac{1}{2}H_2O$

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.

References:

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.

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

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.

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

Tocris Bioscience is an R&D Systems company
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSystems.com

R&D
SYSTEMS®