

Certificate of Analysis

Product Name: WZ 811

Catalog No.: 3951

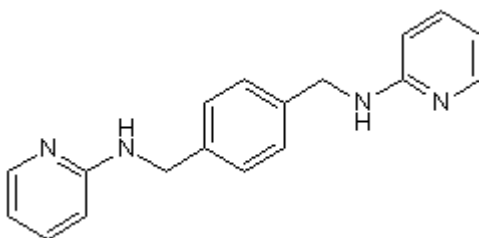
Batch No.: 1

CAS Number: 55778-02-4

IUPAC Name: *N*¹,*N*⁴-Di-2-pyridinyl-1,4-benzenedimethanamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₈N₄
Batch Molecular Weight: 290.36
Physical Appearance: White crystalline solid
Solubility: DMSO to 25 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.41 (Chloroform:Methanol [95:5])
HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	74.46	6.25	19.3
Found	74.4	6.2	19.4

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

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Description:

Potent chemokine receptor type 4 (CXCR4) antagonist (EC₅₀ = 0.3 nM). Inhibits CXCR4/stromal cell-derived factor-1 (SDF-1)-mediated modulation of cAMP in vitro (EC₅₀ = 1.2 nM).

Physical and Chemical Properties:

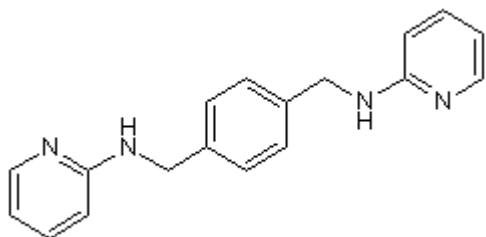
Batch Molecular Formula: C₁₈H₁₈N₄

Batch Molecular Weight: 290.36

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Reyes et al (2002) Pyridinium *N*-(2'-azinyl)aminides: regioselective synthesis of *N*-(2-pyridyl) substituted polyamines. *Chem.Inform.* **34**.

Zhan et al (2007) Discovery of small molecule CXCR4 antagonists. *J.Med.Chem.* **50** 5655. PMID: 17958344.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 25 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.

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