

Certificate of Analysis

Product Name: NSC 33994

Catalog No.: 4338

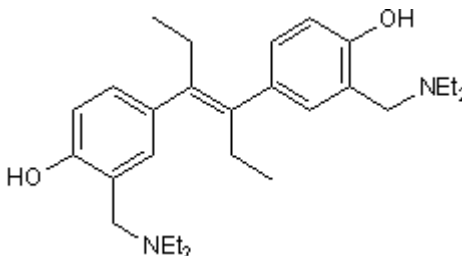
Batch No.: 1

CAS Number: 82058-16-0

IUPAC Name: *E*-4,4'-(1,2-Diethyl-1,2-ethenediyl)bis[2-[(diethylamino)methyl]phenol]

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₄₂N₂O₂
Batch Molecular Weight: 438.65
Physical Appearance: White solid
Solubility: DMSO to 5 mM with gentle warming
 ethanol to 10 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 76.67 | 9.65 | 6.39 |
| Found | 76.31 | 9.35 | 6.42 |

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

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Description:

Selective inhibitor of JAK2 (IC₅₀ = 60 nM). Displays no effect on Src and TYK2 tyrosine kinase activity at a concentration of 25 μM.

Physical and Chemical Properties:

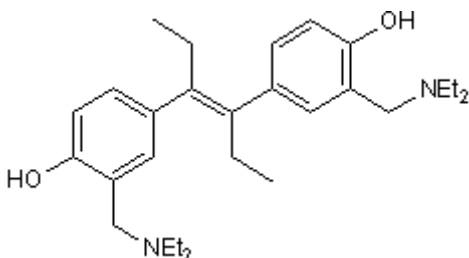
Batch Molecular Formula: C₂₈H₄₂N₂O₂

Batch Molecular Weight: 438.65

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 5 mM with gentle warming
ethanol to 10 mM with gentle warming

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:

Kiss et al (2009) Identification of a novel inhibitor of JAK2 tyrosine kinase by structure-based virtual screening. *Bioorg.Med.Chem.Lett.* **19** 3598. PMID: 19447617.

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