

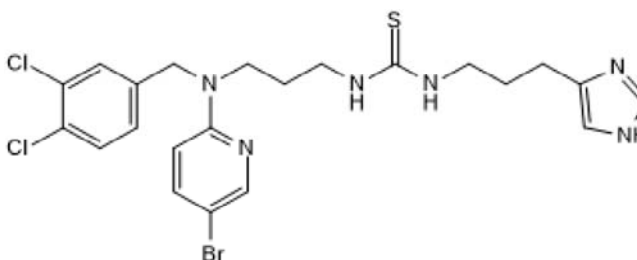
Certificate of Analysis

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Product Name: NNC 26-9100 **Catalog No.:** 2440 **Batch No.:** 3
CAS Number: 199522-35-5
IUPAC Name: 1-[3-[N-(5-Bromopyridin-2-yl)-N-(3,4-dichlorobenzyl)amino]propyl]-3-[3-(1H-imidazol-4-yl)propyl]thiourea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₅N₆Cl₂SBr · ¼H₂O
Batch Molecular Weight: 560.85
Physical Appearance: White solid
Solubility: DMSO to 50 mM
 ethanol to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.63 (10% MeOH, 0.25% NH₄OH in EtOAc)
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.11	4.58	14.98
Found	47.08	4.52	14.64

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

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Description:

Somatostatin sst₄ receptor agonist that displays > 100-fold selectivity over sst₂ receptors (K_i values are 6 and 621 nM for sst₄ and sst₂ receptors respectively). Potently inhibits forskolin-induced cAMP accumulation (EC₅₀ = 26 nM).

Physical and Chemical Properties:

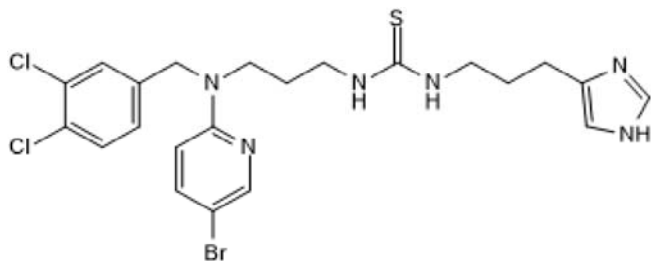
Batch Molecular Formula: C₂₂H₂₅N₆Cl₂SBr.½H₂O

Batch Molecular Weight: 560.85

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 50 mM

By NMR this product contains 0.25 molar equivalents of ethanol.

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:

Liu *et al* (1999) 2-pyridylthioureas: novel nonpeptide somatostatin agonists with SST4 selectivity. *Curr.Pharm.Des.* **5** 255. PMID: 10101224.

Liu *et al* (1998) Nonpeptide somatostatin agonists with sst4 selectivity: synthesis and structure-activity relationships of thioureas. *J.Med.Chem.* **41** 4693. PMID: 9822540.

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