

Product Name: Aminopotentidine

Catalog No.: 0721

Batch No.: 3

CAS Number: 140873-26-3

IUPAC Name: 4-Amino-N-[2-[[[(cyanoamino)[[3-[3-(1-piperidinylmethyl)phenoxy]propyl]imino]methyl]amino]ethyl]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₅N₇O₂·¼H₂O

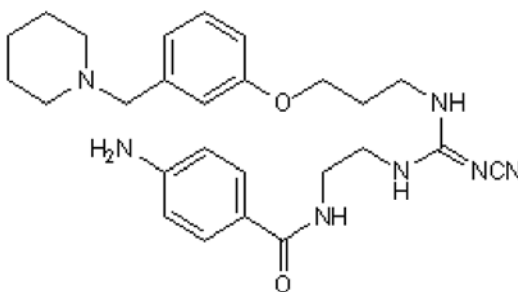
Batch Molecular Weight: 482.1

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Chloroform:Methanol [4:1])

HPLC: Shows 97.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.77	7.42	20.34
Found	64.39	7.37	19.97

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Description:

H₂ antagonist (K_B values are 220 and 280 nM at human and guinea pig H₂ receptors respectively) and precursor for the synthesis of the [¹²⁵I]-iodo derivative.

Physical and Chemical Properties:

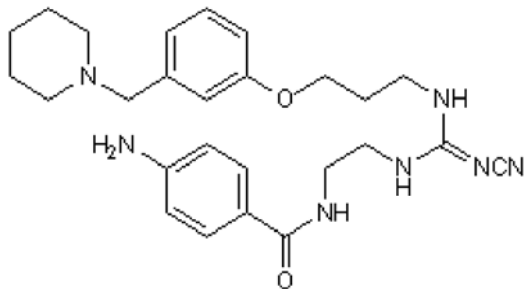
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Batch Molecular Weight: 482.1

Physical Appearance: Off-white solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 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.

References:

Xie et al (2006) Synthesis and pharmacological characterization of novel fluorescent histamine H₂-receptor ligands derived from aminopotentidine. *Bioorg.Med.Chem.Lett.* **16** 3886. PMID: 16730977.

Hirschfield et al (1992) Iodoaminopotentidine and related compounds: a new class of ligands with high affinity and selectivity for the histamine H₂ receptor. *J.Med.Chem.* **35** 2231. PMID: 1613748.

Ruat et al (1990) Reversible and irreversible labeling and autoradiographic localisation of the cerebral histamine H₂ receptor using [¹²⁵I] iodinated probes. *Proc.Natl.Acad.Sci.USA* **87** 1658. PMID: 2308927.

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