

**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:** C<sub>26</sub>H<sub>35</sub>N<sub>7</sub>O<sub>2</sub>·¼H<sub>2</sub>O

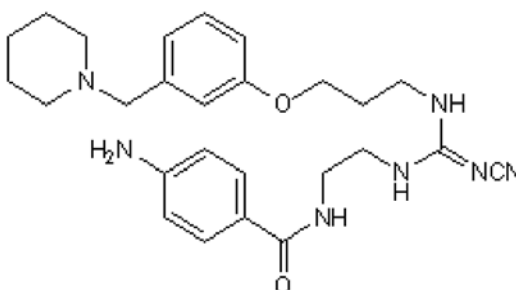
**Batch Molecular Weight:** 482.1

**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<sub>f</sub> = 0.4 (Chloroform:Methanol [4:1])

**HPLC:** Shows 96.8% purity

**<sup>1</sup>H 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:**

Aminopotentidine is a H<sub>2</sub> antagonist (K<sub>B</sub> values are 220 and 280 nM at human and guinea pig H<sub>2</sub> receptors respectively) and precursor for the synthesis of the [<sup>125</sup>I]-iodo derivative.

**Physical and Chemical Properties:**

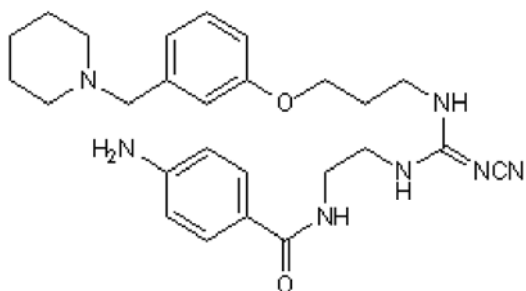
Batch Molecular Formula: C<sub>26</sub>H<sub>35</sub>N<sub>7</sub>O<sub>2</sub>·½H<sub>2</sub>O

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 H<sub>2</sub>-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 H<sub>2</sub> receptor. *J.Med.Chem.* **35** 2231. PMID: 1613748.

**Ruat et al** (1990) Reversible and irreversible labeling and autoradiographic localisation of the cerebral histamine H<sub>2</sub> receptor using [<sup>125</sup>I] iodinated probes. *Proc.Natl.Acad.Sci.USA* **87** 1658. PMID: 2308927.

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