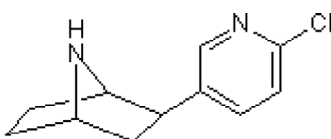


Product Name: (±)-Epibatidine
CAS Number: 148152-66-3
IUPAC Name: (±)-exo-2-(6-Chloro-3-pyridinyl)-7-azabicyclo[2.2.1]heptane

Catalog No.: 0684 **Batch No.:** 15

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₃ClN₂
Batch Molecular Weight: 208.69
Physical Appearance: Off White solid
Solubility: water to 5 mM
ethanol to 100 mM
DMSO to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.44 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])
HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

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

Product Name: (±)-Epibatidine

Catalog No.: 0684

15

CAS Number: 148152-66-3

IUPAC Name: (±)-exo-2-(6-Chloro-3-pyridinyl)-7-azabicyclo[2.2.1]heptane

Description:

(±)-Epibatidine is a high affinity nicotinic agonist (K_i values are 0.02 and 233 nM for $\alpha 4\beta 2$ and $\alpha 7$ nicotinic receptors respectively). Analgesic.

Physical and Chemical Properties:

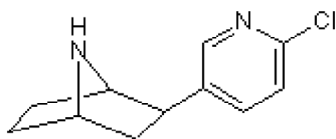
Batch Molecular Formula: $C_{11}H_{13}ClN_2$

Batch Molecular Weight: 208.69

Physical Appearance: Off White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 5 mM

ethanol to 100 mM

DMSO to 100 mM

POTENT NICOTINIC AGONIST - TREAT AS EXTREMELY POISONOUS. This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

Licensing Information:

Sold under license from the NIH, US Patent 5,314,899

References:

Sharples et al (2000) UB-165 implicates $\alpha 4\beta 2$ nAChR in striatal DA release. *J.Neurosci.* **20** 2783. PMID: 10751429.

Marks et al (1998) Differential agonist inhibition identifies multiple epibatidine binding sites in mouse brain. *J.Pharmacol.Exp.Ther.* **285** 377. PMID: 9536034.

Gerzrich et al (1995) Comparative pharmacology of epibatidine; a potent agonist for neuronal nicotinic acetylcholine receptors. *Mol.Pharmacol.* **48** 774. PMID: 7476906.

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