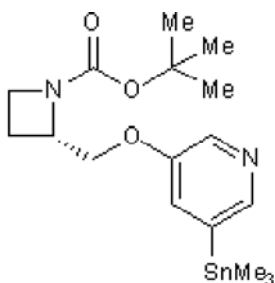


Product Name: 5-Iodo-A-85380, 5-trimethylstannyl N-BOC derivative **Catalog No.:** 1527 **Batch No.:** 1
CAS Number: 213766-21-3
IUPAC Name: (2S)-2-[[[5-(Trimethylstannyl)-3-pyridinyl]oxy]methyl]-1-azetidinecarboxylic acid, t-butyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₈N₂O₃Sn
Batch Molecular Weight: 427.11
Physical Appearance: Yellow oil
Solubility: Soluble in ethanol
Soluble in DMSO
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows >99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

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

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Description:

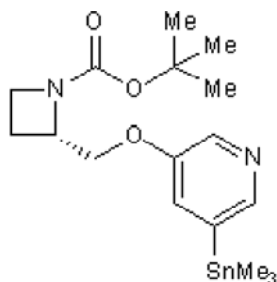
Precursor to the highly potent and selective ligand for the $\alpha 4\beta 2$ nicotinic receptor, 5-Iodo-A-85380 (Cat. No.1518). Suitable for radioiodination.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₇H₂₈N₂O₃Sn
 Batch Molecular Weight: 427.11
 Physical Appearance: Yellow oil

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble in ethanol
 Soluble in DMSO
 This product is supplied as a lyophilized oil and may 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. 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:

Mukhin *et al* (2000) 5-Iodo-A-85380, an $\alpha 4\beta 2$ subtype-selective ligand for nicotinic acetylcholine receptors. *Mol.Pharmacol.* **57** 642. PMID: 10692507.

Koren *et al* (1998) 2-, 5-, and 6-Halo-3-(2(S)-azetidylmethoxy)pyridines: synthesis, affinity for nicotinic acetylcholine receptors, and molecular modeling. *J.Med.Chem.* **41** 3690. PMID: 9733494.

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