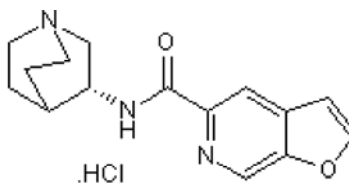


Product Name: PHA 543613 hydrochloride **Catalog No.:** 3092 **Batch No.:** 4
CAS Number: 1586767-92-1
IUPAC Name: *N*-(3*R*)-1-Azabicyclo[2.2.2]oct-3-yl-furo[2,3-*c*]pyridine-5-carboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₇N₃O₂.HCl.¼H₂O
Batch Molecular Weight: 312.28
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 25 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.69	5.97	13.46
Found	57.61	5.87	13.44

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

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Description:

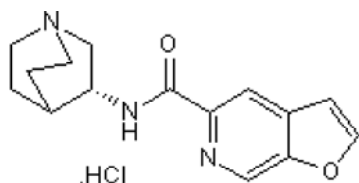
Potent $\alpha 7$ nAChR agonist that displays selectivity over $\alpha 3\beta 4$, $\alpha 1\beta 1\gamma \delta$, $\alpha 4\beta 2$ and 5-HT₃ receptors. Positively influences sensory gating and memory in in vivo models of schizophrenia. Orally active and brain penetrant.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₅H₁₇N₃O₂.HCl.¼H₂O
 Batch Molecular Weight: 312.28
 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 100 mM
 DMSO to 25 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.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc.

References:

Acker et al (2008) Discovery of *N*-[3*R*,5*R*]-1-azabicyclo[3.2.1]ocy-3-yl]furo-[2,3-*c*]pyridine-5-carboxamide as an agonist of the $\alpha 7$ nicotinic acetylcholine receptor: in vitro and in vivo activity. *Bioorg.Med.Chem.Letts.* **18** 3611.

Faghih et al (2008) Allosteric modulators of the $\alpha 7$ nicotinic acetylcholine receptor. *J.Med.Chem.* **51** 701. PMID: 18198823.

Wishka et al (2006) Discovery of *N*-[(3*R*)-1-azabicyclo[2.2.2]oct-3-yl]furo[2,3-*c*]pyridine-5-carboxamide, an agonist of the $\alpha 7$ nicotinic acetylcholine receptor, for the potential treatment of cognitive deficits in schizophrenia; synthesis and st *J.Med.Chem.* **49** 4425. PMID: 16821801.

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