

PNU-282987

## Chemical Properties

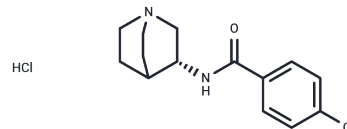
CAS No. : 123464-89-1

Formula: C<sub>14</sub>H<sub>18</sub>Cl<sub>2</sub>N<sub>2</sub>O

Molecular Weight: 301.21

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description          | PNU-282987 is a selective $\alpha 7$ nicotinic acetylcholine receptor ( $\alpha 7$ nAChR) agonist with $K_i$ of 26 nM; no affinity for $\alpha 1\beta 1\gamma 6$ and $\alpha 3\beta 4$ nAChRs ( $IC_{50} \geq 60 \mu M$ ).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Targets( $IC_{50}$ ) | AChR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Kinase Assay         | Kinase inhibition assays : Kinase inhibition is measured by the use of radiometric assays conducted by Kinase Profiler service. Briefly, in the presence or absence of SKLB1002, VGFR2 (5–10 mU) is incubated in 25- $\mu$ L reaction solution containing 8 mmol/L 3-(N-morpholino)propanesulfonic acid (MOPS), pH 7.0, 0.2 mmol/L EDTA, 0.33 mg/mL myelin basic protein, 10 mmol/L Mg acetate, and $\gamma$ -[ <sup>33</sup> P]ATP. After incubation for 40 minutes at room temperature, the reaction is stopped and 10 $\mu$ L of the reaction solution is then spotted onto a P30 filtermat and washed 3 times for 5 minutes in 75 mmol/L phosphoric acid and once in methanol prior to scintillation counting. |

## Solubility Information

|            |                                                                                                |
|------------|------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 50 mg/mL (166 mM),<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble) |
|------------|------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.3199 mL | 16.5997 mL | 33.1994 mL |
| 5 mM  | 0.664 mL  | 3.3199 mL  | 6.6399 mL  |
| 10 mM | 0.332 mL  | 1.660 mL   | 3.3199 mL  |
| 50 mM | 0.0664 mL | 0.332 mL   | 0.664 mL   |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Bodnar AL, et al. J Med Chem. 2005 Feb 24;48(4):905-8.

Zhang T, Yang K, Chen Y, et al. Impaired autophagy flux by lncRNA NEAT1 is critical for inflammation factors

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