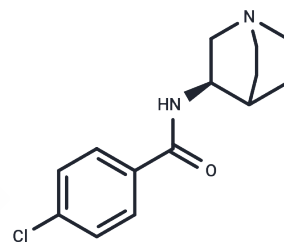


## PNU-282987 free base

## Chemical Properties

CAS No. :	711085-63-1
Formula:	C <sub>14</sub> H <sub>17</sub> ClN <sub>2</sub> O
Molecular Weight:	264.75
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	PNU-282987 (free base) is a potent agonist of $\alpha 7$ nicotinic acetylcholine receptor (nAChR) with an EC <sub>50</sub> of 154 nM and a functional antagonist of the 5-HT <sub>3</sub> receptor with an IC <sub>50</sub> of 4541 nM. It can be used for central and peripheral nervous system studies[1].
Targets(IC <sub>50</sub> )	5-HT Receptor,AChR
In vitro	PNU-282987 is an agonist of $\alpha 7$ neuronal nicotine receptor ( EC <sub>50</sub> = 154 n M ) and an inhibitor of 5-HT <sub>3</sub> receptor ( IC <sub>50</sub> = 4541 n M )[1].
In vivo	In Rats, PNU-282987 free base ( 1,3 mg/kg ; i.v. ) can significantly reversed amphetamine-induced gating deficit[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7771 mL	18.8857 mL	37.7715 mL
5 mM	0.7554 mL	3.7771 mL	7.5543 mL
10 mM	0.3777 mL	1.8886 mL	3.7771 mL
50 mM	0.0755 mL	0.3777 mL	0.7554 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Bodnar AL,et al. Discovery and structure-activity relationship of quinuclidine benzamides as agonists of alpha7 nicotinic acetylcholine receptors. J Med Chem. 2005 Feb 24;48(4):905-8.

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