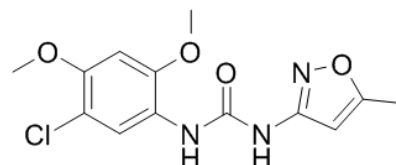


**Product Name** : PNU-120596  
**Cat. No.** : PC-42901  
**CAS No.** : 501925-31-1  
**Molecular Formula** : C<sub>13</sub>H<sub>14</sub>ClN<sub>3</sub>O<sub>4</sub>  
**Molecular Weight** : 311.7209  
**Target** : nAChR  
**Solubility** : 10 mM in DMSO



## Biological Activity

PNU-120596 (NSC 216666) is a potent, selective **α7 nAChR** positive allosteric modulator (PAM) that enhances ACh-evoked Ca<sup>2+</sup> flux with EC<sub>50</sub> of 216 nM, displays no activity for α3β4, α4β2 and α9β10 nAChRs.

PNU-120596 increases the channel mean open time of α7 nAChRs but has no effect on ion selectivity and little to no effect on unitary conductance.

PNU-120596 increases the frequency of ACh-evoked GABAergic postsynaptic currents in pyramidal neurons.

PNU-120596 improves the auditory gating deficit caused by amphetamine, a model of schizophrenia.

## References

Hurst RS, et al. *J Neurosci.* 2005 Apr 27;25(17):4396-405.

Dickinson JA, et al. *J Neurochem.* 2007 Feb;100(4):1089-96.

Grønlien JH, et al. *Mol Pharmacol.* 2007 Sep;72(3):715-24.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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