

## Product Datasheet

# A 582941 HCl (848591-90-2(free base)) (orb1219600)

<b>Catalog Number</b>	orb1219600
<b>Category</b>	Tools
<b>Description</b>	A-582941 is a alpha7 neuronal nicotinic receptor agonist with broad spectrum cognition-enhancing properties. A-582941 was found to exhibit high-affinity binding and partial agonism at alpha7 nAChRs, with acceptable pharmacokinetic properties and excellent distribution to the central nervous system (CNS). In vitro and in vivo studies indicated that A-582941 activates signaling pathways known to be involved in cognitive function such as ERK1/2 and CREB phosphorylation. A-582941 enhanced cognitive performance in behavioral models that capture domains of working memory, short-term recognition memory, memory consolidation, and sensory gating deficit. A-582941 exhibited a benign secondary pharmacodynamic and tolerability profile as assessed in a battery of assays of cardiovascular, gastrointestinal, and CNS function.
<b>Target</b>	AChR
<b>Purity</b>	>98% (HPLC)
<b>MW</b>	316.83
<b>Target Areas</b>	α7 nAChR
<b>CAS Number</b>	---
<b>Formula</b>	C <sub>17</sub> H <sub>21</sub> ClN <sub>4</sub>
<b>SMILES</b>	Cl.CN1C[C@H]2CN(C[C@H]2C1)c3ccc(nn3)c4ccccc4
<b>Storage</b>	Storage temperature: -20°C. Stability: ≥ 2 years
<b>Note</b>	For research use only

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**Expiration Date**

12 months from date of receipt.

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