



# DiscovRX Nicotinic AchR

## Catalog Number: AU2025

### **Kit Contents:**

| Component                                 | Amount      | Concentration | Storage Condition |
|---|-------------|---------------|-------------------|
| Cell membranes containing Nicotinic AChRs | 100 $\mu$ L | 1mg/mL        | -80°C             |

### **Required Materials NOT provided:**

*All materials used should be RNase-Free.*

- Micro-pipettes with disposable plastic tips (25-1000  $\mu$ L), multi-channel pipette (50-250  $\mu$ L) or stepper pipette (50-250  $\mu$ L), or electronic repeating pipette with disposable plastic tips.
- Fluorescent Microtiter Plate Reader (excitation 485nm and emission 525nm +/-5)
- Timer

### **Background:**

Cell membrane preparations containing nicotinic AChRs that are ligand-gated ion channels that form pores in cells plasma membranes, mediating fast signal transmission at synapses. Nicotinic AChRs are involved in a wide range of physiological processes and can be either neuronal or muscle-type. These membrane preparations included with AU2025 are suitable for receptor binding assays in which muscle type nicotinic AChRs are needed. The membranes are tested in several functional binding assays and quality testing criteria to meet binding specifications.

The study of cellular membrane proteins is critical for understanding their influence in diseases and their response to therapeutics.

To enable this study, Attogene offers a menu of membrane preps that have been derived from specific cell lines.

**Stable** - Derived from cells that have been extensively shown to contain Nicotinic AChRs

**Robust Performance** - Large signal-to-background ratios, reproducible results, and specific and high total ligand binding

**Versatile Use** - Attogene membrane preps are qualified for saturation and competitive ligand binding and functional studies.



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### **Assay Protocol:**

**Method control:** It is best to run a set of negative and positive controls with each sample set run to ensure comparable readings from the day, time, and user. Depending on the compounds being reviewed, a spike solution that can be used to generate the positive control can be made and added into control wells.