

**DiscoverX** 

# PrecisION<sup>®</sup> hnAChR α4/β2 Recombinant Stable Cell Line

Catalog Number CYL3106

Lot Number

See Vial

**Contents** 2 Vials,  $2 \times 10^6$  to  $4 \times 10^6$  in 1 mL

## **Background Information**

The hnAChRα4β2 nicotinic receptor is located in multiple regions of the brain including the prefrontal cortex, Hippocampus, NAc, Amygdala, and VTA. It is involved in synaptic plasticity pertaining to attention, learning, memory, cognition, and development. This target's high binding affinity for nicotine is the cause for its highly addictive properties.

### **Product Information**

**Description** Recombinant HEK 293 cell line expressing the  $\alpha 4$  (accession number NM\_000744.6) and  $\beta 2$  subunits of the human nicotinic acetylcholine receptor.

Family Ligand-Gated

Target

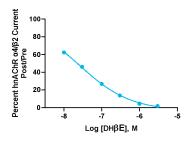
nAChR α4/β2

	Target Protein	Accession Number
1	nAChR α4	NM_000744.6
2	nAChR β2	NM_000748.2
3	N/A	N/A
4	N/A	N/A

Species	Human
Host Cell Type	HEK 293
Application	Electrophysiology assay (conventional and automated patch clamp platforms)
Storage	Vials are to be stored in vapor phase of liquid nitrogen

#### **Functional Performance**

HEK293 cells expressing hnAChR  $\alpha 4/\beta 2$  were characterized in terms of their pharmacological and biophysical properties using whole-cell patch clamp techniques.



Electrophysiology Method	IonFlux
Reference Agonist	Acetylcholine
Reference Antagonist	DHβE
Antagonist IC₅₀ (μM)	0.03



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#### **Passage Stability**

This cell line has been confirmed to be stable through at least 12 passages with no significant drop in assay window or change in pharmacology.

#### **Mycoplasma Testing**

This lot was tested and found to be free of mycoplasma contamination. Data available upon request.

#### Notes

Additional functional (pharmacological and electrophysiological) validation on multiple platforms is available upon request.

### Additional Ligand Information

Control CompoundDHβEVendor Name :TocrisVendor Catalog No.2349

Additional Background Information

N/A

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