

## CHRNA1 Protein, Human (His)

<b>Cat. No.:</b>	HY-P72139
<b>Synonyms:</b>	Acetylcholine receptor subunit alpha; ACHA_HUMAN; AChR; ACHRA; ACHRD; CHNRA; Cholinergic receptor nicotinic alpha 1 subunit; Cholinergic receptor nicotinic alpha polypeptide 1; Cholinergic receptor; nicotinic; alpha polypeptide 1 muscle; ; Chrna1; CMS1A; CMS1B; CMS2A; FCCMS; Nicotinic cholinergic receptor alpha 1; SCCMS; Schizophrenia neurophysiologic defect candidate
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P02708 (S21-L255)
<b>Gene ID:</b>	1134
<b>Molecular Weight:</b>	Approximately 31.1 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> S E H E T R L V A K      L F K D Y S S V V R      P V E D H R Q V V E      V T V G L Q L I Q L I N V D E V N Q I V      T T N V R L K Q G D      M V D L P R P S C V      T L G V P L F S H L Q N E Q W V D Y N L      K W N P D D Y G G V      K K I H I P S E K I      W R P D L V L Y N N A D G D F A I V K F      T K V L L Q Y T G H      I T W T P P A I F K      S Y C E I I V T H F P F D E Q N C S M K      L G T W T Y D G S V      V A I N P E S D Q P      D L S N F M E S G E W V I K E S R G W K      H S V T Y S C C P D      T P Y L D I T Y H F      V M Q R L           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm solution of PBS, 6% Trehalose, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	Upon binding with acetylcholine, the CHRNA1 protein undergoes a significant conformational shift that impacts all subunits, resulting in the opening of an ion-conducting channel across the plasma membrane. However, in some instances, the acetylcholine receptor alpha subunit of CHRNA1 may be non-functional and not integrated into fully operational acetylcholine-gated cation-selective channels, emphasizing the importance of understanding the factors that regulate its functionality and incorporation into the functional receptor complex.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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