

nAChRα5 Protein, Human (HEK293, His)

Cat. No.:	HY-P70340
Synonyms:	rHuNeuronal acetylcholine receptor subunit alpha-5/NACHRA5, His; Neuronal Acetylcholine Receptor Subunit Alpha-5; CHRNA5; NACHRA5
Species:	Human
Source:	HEK293
Accession:	P30532/NP_000736.2 (R23-T254)
Gene ID:	1138
Molecular Weight:	35-40 kDa

PROPERTIES

AA Sequence	R C G L A G A A G G A Q R G L S E P S S I A K H E D S L L K D L F Q D Y E R W V R P V E H L N D K I K I K F G L A I S Q L V D V D E K N Q L M T T N V W L K Q E W I D V K L R W N P D D Y G G I K V I R V P S D S V W T P D I V L F D N A D G R F E G T S T K T V I R Y N G T V T W T P P A N Y K S S C T I D V T F F P F D L Q N C S M K F G S W T Y D G S Q V D I I L E D Q D V D K R D F F D N G E W E I V S A T G S K G N R T D S C C W Y P Y V T Y S F V I K R L P L F Y T
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Upon acetylcholine binding, nAChRα5 Protein initiates a substantial conformational change that influences all subunits, ultimately resulting in the opening of an ion-conducting channel across the plasma membrane. The neuronal AChR is evidently comprised of two distinct types of subunits: the alpha subunits and the non-alpha (beta) subunits. Notably, nAChR α5 Protein engages in interactions with LYPD6, as documented in studies. This molecular interaction sheds light on the intricate regulatory mechanisms underlying the functionality of neuronal acetylcholine receptors, emphasizing the dynamic nature of their conformational changes and their significance in ion channel activation.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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