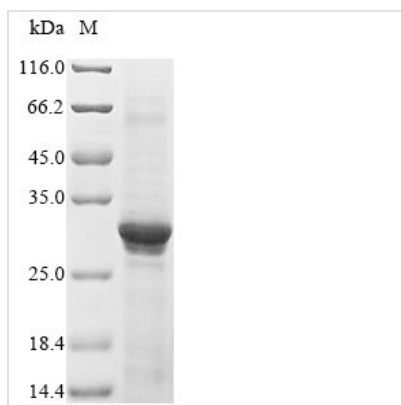


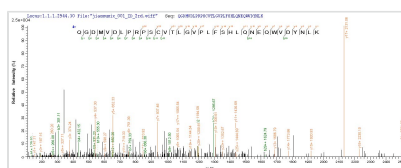


Recombinant Human Acetylcholine receptor subunit alpha (CHRNA1), partial

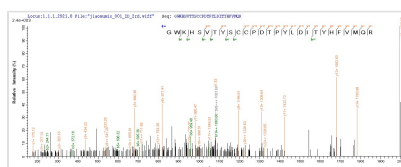
Product Code	CSB-EP005386HU
Relevance	After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma mbrane.
Abbreviation	Recombinant Human CHRNA1 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P02708
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	SEHETRLVAKLFKDYSSVVRPVEDHRQVVEVTVGLQLIQLINVDEVNQIVTTNV RLKQGDMVDLPRPSCVTLGVPPLFSHLQNEQWVDYNLKWNPDDYGGVKKIHIP SEKIWRPDLVLYNNADGDFAIVKFTKVLLQYTGHITWTPPAIFKSYCEIIVTHFPF DEQNCSMKLGTWTYDGSVVAINPESDQPDLSNFMESGEWVIKESRGWKHSV TYSCCPDTPYLDITYHFVMQRL
Research Area	Transport
Source	E.coli
Target Names	CHRNA1
Expression Region	21-255aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	31.1kDa
Protein Length	Partial of P02708-1
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP005386HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) CHRNA1.



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Description

Recombinant Human Acetylcholine receptor subunit alpha (CHRNA1) is a partial length protein expressed with an N-terminal 6xHis-tagged in the E.coli. Its expression region corresponds to 21-255aa (Extracellular Domain) of human CHRNA1 protein. It underwent validation via the LC-MS/MS analysis. Its purity reached up to 90% determined by SDS-PAGE. Under reducing conditions, a molecular weight band of around 32 kDa was visualized on the gel. This recombinant CHRNA1 protein is in stock now.

CHRNA1 is a component of acetylcholine receptors (AChRs) that are neurotransmitter receptors in the neuronal system. This protein plays a role in acetylcholine binding/channel gating. The ACh/AChR signaling is essential to normal the central nervous system (CNS) function. Alterations in this signaling lead to multiple neuropsychiatric disorders, including Myasthenic Syndrome, Congenital, 1B, Fast-Channel and Myasthenic Syndrome, Congenital, 1A, Slow-Channel.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.