

Recombinant Human CHRNA4 protein, His-tagged

Cat. No. CHRNA4-1965H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHRNA4 aa. (Asn49~Leu242) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Asn49~Leu242
Description	This gene encodes a nicotinic acetylcholine receptor, which belongs to a superfamily of ligand-gated ion channels that play a role in fast signal transmission at synapses. These pentameric receptors can bind acetylcholine, which causes an extensive change in conformation that leads to the opening of an ion-conducting channel across the plasma membrane. This protein is an integral membrane receptor subunit that can interact with either nAChR beta-2 or nAChR beta-4 to form a functional receptor. Mutations in this gene cause nocturnal frontal lobe epilepsy type 1. Polymorphisms in this gene that provide protection against nicotine addiction have been described. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	25kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	> 95%
Characteristic	The isoelectric point is 5.3.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Reporter Assays; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	CHRNA4 cholinergic receptor nicotinic alpha 4 subunit [Homo sapiens (human)]
Official Symbol	CHRNA4

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Synonyms

SPA; PSAP; PSPA; SP-A; SPA1; PSP-A; SFTP1; SP-A1; COLEC4; SFTPA1B; 35 kDa pulmonary surfactant-associated protein; SP-A1 beta; SP-A1 delta; SP-A1 epsilon; SP-A1 gamma; alveolar proteinosis protein; collectin-4; surfactant protein A1 variant AB'D' 6A; surfactant protein A1 variant AB'D' 6A2; surfactant protein A1 variant AB'D' 6A3; surfactant protein A1 variant AB'D' 6A4; surfactant protein A1 variant ACD' 6A; surfactant protein A1 variant ACD' 6A2; surfactant protein A1 variant ACD' 6A3; surfactant protein A1 variant ACD' 6A4; surfactant protein A1 variant AD' 6A; surfactant protein A1 variant AD' 6A2; surfactant protein A1 variant AD' 6A3; surfactant protein A1 variant AD' 6A4; surfactant protein A1B; surfactant, pulmonary-associated protein A1A; surfactant, pulmonary-associated protein A1B; pulmonary surfactant-associated protein A1

Gene ID

1137

mRNA Refseq

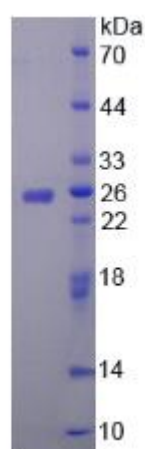
NM_000744.6

Protein Refseq

NP_000735.1

UniProt ID

P43681



SDS-PAGE

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