

Recombinant Human CHRNA3, GST-tagged

Cat. No. CHRNA3-11211H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHRNA3 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	32-238a.a.
Description	This locus encodes a member of the nicotinic acetylcholine receptor family of proteins. Members of this family of proteins form pentameric complexes comprised of both alpha and beta subunits. This locus encodes an alpha-type subunit, as it contains characteristic adjacent cysteine residues. The encoded protein is a ligand-gated ion channel that likely plays a role in neurotransmission. Polymorphisms in this gene have been associated with an increased risk of smoking initiation and an increased susceptibility to lung cancer. Alternatively spliced transcript variants have been described.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	CHRNA3 cholinergic receptor, nicotinic, alpha 3 (neuronal) [Homo sapiens]
Official Symbol	CHRNA3
Synonyms	CHRNA3; cholinergic receptor, nicotinic, alpha 3 (neuronal); cholinergic receptor, nicotinic, alpha polypeptide 3; neuronal acetylcholine receptor subunit alpha-3; acetylcholine receptor; nicotinic; alpha 3 (neuronal); neuronal nicotinic acetylcholine receptor, alpha3 subunit; LNCR2; PAOD2; NACHRA3; MGC104879;
Gene ID	1136
mRNA Refseq	NM_000743
Protein Refseq	NP_000734
MIM	118503
UniProt ID	P32297
Chromosome Location	15q24
Pathway	Acetylcholine Binding And Downstream Events, organism-specific biosystem; Activation of Nicotinic Acetylcholine Receptors, organism-specific biosystem; Cholinergic synapse, organism-specific biosystem; Highly calcium permeable nicotinic acetylcholine receptors, organism-specific biosystem; Highly calcium permeable postsynaptic nicotinic acetylcholine receptors, organism-specific biosystem; Highly sodium permeable acetylcholine nicotinic receptors, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem;
Function	acetylcholine binding; acetylcholine receptor activity; acetylcholine-activated cation-

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selective channel activity; acetylcholine-activated cation-selective channel activity;
extracellular ligand-gated ion channel activity; ligand-gated ion channel activit

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