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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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CHRNA7 Pre-design Chimera RNAi

Catalog # : H00001139-R01

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens cholinergic receptor, nicotinic, alpha polypeptide 7 (CHRNA7), mRNA.

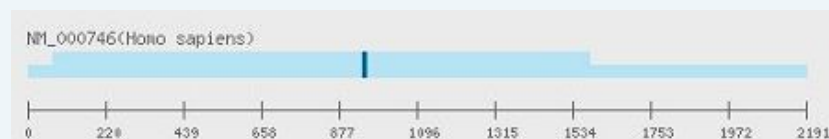
Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_000746

Storage Instruction: Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.

Note: Position of the Chimera RNAi.



Application Image

RNAi Knockdown

Publication Reference

- [dsCheck: highly sensitive off-target search software for double-stranded RNA-mediated RNA interference.](#)
Naito Y, Yamada T, Matsumiya T, Ui-Tei K, Saigo K, Morishita S. *Nucleic Acids Res.* 2005 Jul 1;33(Web Server issue):W589-91.
- [Functional dissection of siRNA sequence by systematic DNA substitution: modified siRNA with a DNA seed arm is a powerful tool for mammalian gene silencing with significantly reduced off-target effect.](#)
Ui-Tei K, Naito Y, Zenno S, Nishi K, Yamato K, Takahashi F, Juni A, Saigo K. *Nucleic Acids Res.* 2008 Apr;36(7):2136-51. Epub 2008 Feb 11.
- [Guidelines for the selection of highly effective siRNA sequences for mammalian and chick RNA interference.](#)
Ui-Tei K, Naito Y, Takahashi F, Haraguchi T, Ohki-Hamazaki H, Juni A, Ueda R, Saigo K. *Nucleic Acids Res.* 2004 Feb 9;32(3):936-48. Print 2004.
- [siDirect: highly effective, target-specific siRNA design software for mammalian RNA interference.](#)
Naito Y, Yamada T, Ui-Tei K, Morishita S, Saigo K. *Nucleic Acids Res.* 2004 Jul 1;32(Web Server issue):W124-9.

Applications

RNAi Knockdown

Gene Information

Entrez GeneID: [1139](#)

Gene Name: CHRNA7

Gene Alias: CHRNA7-2,NACHRA7

Gene cholinergic receptor, nicotinic, alpha 7

Description:

Omim ID: [118511](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: The nicotinic acetylcholine receptors (nAChRs) are members of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. The nAChRs are thought to be hetero-pentamers composed of homologous subunits. The proposed structure for each subunit is a conserved N-terminal extracellular domain followed by three conserved transmembrane domains, a variable cytoplasmic loop, a fourth conserved transmembrane domain, and a short C-terminal extracellular region. The protein encoded by this gene forms a homo-oligomeric channel, displays marked permeability to calcium ions and is a major component of brain nicotinic receptors that are blocked by, and highly sensitive to, alpha-bungarotoxin. Once this receptor binds acetylcholine, it undergoes an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. This gene is located in a region identified as a major susceptibility locus for juvenile myoclonic epilepsy and a chromosomal location involved in the genetic transmission of schizophrenia. An evolutionarily recent partial duplication event in this region results in a hybrid containing sequence from this gene and a novel FAM7A gene. [provided by RefSeq]

Other Designations: a7 nicotinic acetylcholine receptor, alpha 7 neuronal nicotinic acetylcholine receptor, alpha-7 nicotinic cholinergic receptor subunit, cholinergic receptor, nicotinic, alpha polypeptide 7, neuronal acetylcholine receptor protein, alpha-7 chain

Gene Pathway

[Calcium signaling pathway](#)

Related Disease

[Alzheimer Disease](#) [Alzheimer disease](#) [Angelman syndrome](#) [Arousal](#) [Attention](#) [Attention Deficit Disorder with Hyperactivity](#) [Auditory Perceptual Disorders](#) [Autistic Disorder](#) [Bipolar Disorder](#) [Chromosome Deletion](#) [Cognition](#) [Cognition Disorders](#) [Depressive Disorder, Major](#) [Disease Progression](#) [Epilepsy](#) [Epilepsy, Generalized](#) [Genetic Predisposition to Disease](#) [Hypercholesterolemia](#) [Lung Neoplasms](#)

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