AREG siRNA – Amphiregulin Preproprotein (Mouse)

PRODUCT OVERVIEW

Product Name	AREG, siRNA
Full Product Name	AREG siRNA (Mouse)
Product Gene Name	AREG sirna
Product Synonym Names	SDGF; Amphiregulin; AR; Schwannoma-derived growth factor; SDGF
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	AREG siRNA (Mouse) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	27,549 Da
3D Structure	ModBase 3D Structure for P31955
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of mouse AREG gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for AREG sirna	RNA Interference (RNAi)
Related Product Information for AREG sirna	MBS8203089 is an siRNA targeting AREG. Also known as AREG siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit AREG expression using RNA interference
Other Notes	Small volumes of AREG sirna vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AREG. It may not necessarily be applicable to this product.

NCBI GI #	6753108

NCBI GeneID	11839
NCBI Accession #	NP_033834.1
UniProt Primary Accession #	P31955
UniProt Related Accession #	P31955
GenBank Nucleotide #	NM_009704.4
NCBI Official Full Name	amphiregulin preproprotein
NCBI Official Synonym Full Names	amphiregulin
NCBI Official Symbol	Areg
NCBI Official Synonym Symbols	AR; Mcub; Sdgf
UniProt Protein Name	Amphiregulin
UniProt Synonym Protein Names	Schwannoma-derived growth factor; SDGF
Protein Family	Amphiregulin
UniProt Gene Name	Areg
UniProt Synonym Gene Names	Sdgf; AR; SDGF
UniProt Entry Name	AREG_MOUSE
NCBI Protein Information	amphiregulin
NCBI Summary for AREG	This gene encodes a member of the epidermal growth factor (EGF) family and preproprotein that is proteolytically processed to generate a mature protein product. The encoded protein is a ligand of the epidermal growth factor receptor (EGFR) and has been shown to play a role in immunity, inflammation, tissue repair, and lung and mammary gland development. Homozygous knockout mice for this gene exhibit impaired immune system regulation in the skin and gene expression changes characteristic of chronic liver damage. [provided by RefSeq, Aug 2015]
UniProt Comments for AREG	AREG: Ligand of the EGF receptor/EGFR. Autocrine growth factor as well as a mitogen for a broad range of target cells including astrocytes, Schwann cells and fibroblasts. Belongs to the amphiregulin family. Protein type: Membrane protein, integral Cellular Component: extracellular space; cell surface; membrane; cytoplasm; integral to membrane; intracellular; nucleus Molecular Function: growth factor activity; cytokine activity; epidermal growth factor receptor binding Biological Process: glial cell proliferation; epidermal growth factor receptor signaling pathway; G-protein coupled receptor protein signaling pathway; response to glucocorticoid stimulus; positive regulation of cell proliferation; negative regulation of osteoblast differentiation; positive regulation of DNA replication; neurite development; positive regulation of phosphorylation; response to estradiol stimulus
Research Articles on AREG	**1.** hormones and/or factors in addition to E that upregulate AREG can promote mammary gland development and have the potential to affect breast cancer risk associated with pubertal mammary gland development
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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