S100A10 siRNA – Protein S100-A10 (Human)

PRODUCT OVERVIEW

Product Name	S100A10, siRNA
Full Product Name	S100A10 siRNA (Human)
Product Gene Name	S100A10 sirna
Product Synonym Names	ANX2LG; CAL1L; CLP11; Protein S100-A10; Calpactin I light chain; Calpactin-1 light chain; Cellular ligand of annexin II; S100 calcium-binding protein A10; p10 protein; p11
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	S100A10 siRNA (Human) 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	11,203 Da
OMIM	114085
3D Structure	ModBase 3D Structure for P60903
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 human S100A10 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 S100A10 sirna	RNA Interference (RNAi)
Related Product Information for S100A10 sirna	MBS8201446 is an siRNA targeting S100A10. Also known as S100A10 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit S100A10 expression using RNA interference
Other Notes	Small volumes of S100A10 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 S100A10. It may not necessarily be applicable to this product.

NCBI GI #	4506761
NCBI GeneID	6281
NCBI Accession #	NP_002957.1
UniProt Primary Accession #	P60903
UniProt Secondary Accession #	P08206; Q5T1C5; A8K4V8
UniProt Related Accession #	P60903
GenBank Nucleotide #	NM_002966.2
NCBI Official Full Name	protein S100-A10
NCBI Official Synonym Full Names	S100 calcium binding protein A10
NCBI Official Symbol	S100A10
NCBI Official Synonym Symbols	42C; P11; p10; GP11; ANX2L; CAL1L; CLP11; Ca[1]; ANX2LG
UniProt Protein Name	Protein S100-A10
UniProt Synonym Protein Names	Calpactin I light chain; Calpactin-1 light chain; Cellular ligand of annexin II; S100 calcium-binding protein A10; p10 protein; p11
Protein Family	Protein
UniProt Gene Name	S100A10
UniProt Synonym Gene Names	ANX2LG; CAL1L; CLP11
UniProt Entry Name	S10AA_HUMAN
NCBI Protein Information	protein S100-A10
NCBI Summary for S100A10	The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in exocytosis and endocytosis. [provided by RefSeq, Jul 2008]
UniProt Comments for S100A10	S100A10: Because S100A10 induces the dimerization of ANXA2/p36, it may function as a regulator of protein phosphorylation in that the ANXA2 monomer is the preferred target (in vitro) of tyrosine- specific kinase. Heterotetramer containing 2 light chains of S100A10/p11 and 2 heavy chains of ANXA2/p36. Interacts with SCN10A. Belongs to the S-100 family. Protein type: Calcium-binding Chromosomal Location of Human Ortholog: 1q21 Cellular Component: extrinsic to plasma membrane; lipid raft Molecular Function: protein binding; protein homodimerization activity; calcium ion binding; lipid binding Biological Process: positive regulation of focal adhesion formation; positive regulation of stress fiber formation; protein heterotetramerization; positive regulation of binding; lipid raft formation; membrane budding
Research Articles on S100A10	**1.** Authors show here that AnxA2, p11 and AHNAK are required for type 3 secretion system-mediated Salmonella invasion of cultured epithelial cells.
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.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-sirna/s100a10/8201446