SRI / Sorcin (SRI) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	SRI / Sorcin, Recombinant Protein
Full Product Name	Human SRI / Sorcin Recombinant Protein
Product Gene Name	SRI recombinant protein
Product Synonym Names	Sorcin; 22 kDa protein; CP-22; CP22; V19
Host	E Coli
Form/Format	Liquid; 50mM NaH2PO4, 500mM NaCl Buffer with 500mM Imidazole, 10% Glycerol (PH8.0)
Purity/Purification	>95% by SDS-PAGE
Concentration	Reconstitution Dependent (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freezing and thawing.
OMIM	182520
3D Structure	ModBase 3D Structure for P30626
Species	Human
Tag	His
Subunit	Homodimer. Interacts with GCA, RYR2 and ANXA7.
Entry Function	Calcium-binding protein that modulates excitation-contraction coupling in the heart. Contributes to calcium homeostasis in the heart sarcoplasmic reticulum. Modulates the activity of RYR2 calcium channels.
Applications Tested/Suitable for SRI recombinant protein	ELISA (EIA), Western Blot (WB), Antigen Protein (AP), Protein Array
Related Product Information for SRI recombinant protein	MBS2902763 is a recombinant protein targeting SRI. Also known as Human SRI / Sorcin Recombinant Protein. Host: E Coli.
Other Notes	Small volumes of SRI recombinant protein 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 SRI. It may not necessarily be applicable to this product.

NCBI GI #	379317145
NCBI GeneID	6717
NCBI Accession #	NP_001243820.1
UniProt Primary Accession #	P30626
UniProt Related Accession #	P30626
GenBank Nucleotide #	NP_001243820.1
NCBI Official Full Name	sorcin isoform C
NCBI Official Synonym Full Names	sorcin

NCBI Official Symbol	SRI
NCBI Official Synonym Symbols	SCN; V19; CP22; CP-22
UniProt Protein Name	Sorcin
UniProt Synonym Protein Names	22 kDa protein; CP-22; CP22; V19
UniProt Gene Name	SRI
UniProt Synonym Gene Names	CP22
UniProt Entry Name	SORCN_HUMAN
NCBI Protein Information	sorcin
NCBI Summary for SRI	This gene encodes a calcium-binding protein with multiple E-F hand domains that relocates from the cytoplasm to the sarcoplasmic reticulum in response to elevated calcium levels. In addition to regulating intracellular calcium homeostasis it also modulates excitation-contraction coupling in the heart. Alternative splicing results in multiple transcript variants encoding distinct proteins. Multiple pseudogenes exist for this gene. [provided by RefSeq, Mar 2012]
UniProt Comments for SRI	SRI: Calcium-binding protein that modulates excitation- contraction coupling in the heart. Contributes to calcium homeostasis in the heart sarcoplasmic reticulum. Modulates the activity of RYR2 calcium channels. Protein type: Calcium-binding Chromosomal Location of Human Ortholog: 7q21.1 Cellular Component: nucleoplasm; endoplasmic reticulum membrane; sarcoplasmic reticulum membrane; smooth endoplasmic reticulum; sarcoplasmic reticulum; mitochondrion; membrane; cytoplasm; T-tubule; nerve terminal; cytosol; Z disc Molecular Function: protein binding; protease binding; protein heterodimerization activity; calcium channel regulator activity; calcium-dependent cysteine-type endopeptidase activity; calcium ion binding; receptor binding Biological Process: regulation of action potential; cytoplasmic sequestering of transcription factor; muscle development; negative regulation of heart rate; heart development; regulation of striated muscle contraction; regulation of calcium ion transport; signal transduction; proteolysis; regulation of heart contraction; transport; calcium ion transport; positive regulation of release of sequestered calcium ion into cytosol; intracellular sequestering of iron ion
Research Articles on SRI	**1.** REVIEW: the relationship of Sorcin with tumors as well as its regulatory mechanisms; Sorcin is increasingly considered as a potential molecular target for therapeutic intervention
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