SCN2B Human Protein

PRODUCT OVERVIEW

Product Name	SCN2B, Protein
Full Product Name	Human SCN2B full length protein-synthetic nanodisc
Product Gene Name	SCN2B protein
Product Synonym Names	ATFB14
Host	HEK293
Form/Format	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5%-8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with pH lower
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Molecular Weight	24,326 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (118033519..118047337, complement). Location: 11q23
OMIM	601327
3D Structure	ModBase 3D Structure for O60939
Tag	C-DYKDDDDK
Product Categories/Family for SCN2B protein	Full Length Transmembrane Proteins; Ion Channels: Sodium
Related Product Information for SCN2B protein	The protein encoded by this gene is the beta 2 subunit of the type II voltage-gated sodium channel. The encoded protein is involved in cell-cell adhesion and cell migration. Defects in this gene can be a cause of Brugada Syndrome, atrial fibrillation, or sudden infant death syndrome. [provided by RefSeq, Jul 2015]
Other Notes	Small volumes of SCN2B 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.
Searchable Terms for SCN2B purchase	MBS1883071 is a protein targeting SCN2B. Also known as Human SCN2B full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SCN2B. It may not necessarily be applicable to this product.

NCBI GI #	4759066
NCBI GeneID	6327
NCBI Accession #	NP_004579.1
UniProt Primary Accession #	O60939
UniProt Secondary Accession #	O75302; Q9UNN3
UniProt Related Accession #	O60939
GenBank Nucleotide #	NM_004588.4

NCBI Official Full Name	sodium channel subunit beta-2
NCBI Official Synonym Full Names	sodium channel, voltage-gated, type II, beta subunit
NCBI Official Symbol	SCN2B
UniProt Protein Name	Sodium channel subunit beta-2
Protein Family	Sodium channel
UniProt Gene Name	SCN2B
UniProt Entry Name	SCN2B_HUMAN
NCBI Protein Information	sodium channel subunit beta-2; sodium channel beta 2 subunit; neuronal voltage-gated sodium channel beta 2 subunit; sodium channel, voltage-gated, type II, beta polypeptide
UniProt Comments for SCN2B	SCN2B: Crucial in the assembly, expression, and functional modulation of the heterotrimeric complex of the sodium channel. The subunit beta-2 causes an increase in the plasma membrane surface area and in its folding into microvilli. Interacts with TNR may play a crucial role in clustering and regulation of activity of sodium channels at nodes of Ranvier. Belongs to the sodium channel auxiliary subunit SCN2B (TC 8.A.17) family. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 11q23 Cellular Component: voltage-gated sodium channel complex Molecular Function: sodium channel regulator activity Biological Process: nervous system development; synaptic transmission; cardiac muscle contraction; response to pyrethroid Disease: Atrial Fibrillation, Familial, 14
Research Articles on SCN2B	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
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