SCN3B Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	SCN3B, Lysate
Full Product Name	Human SCN3B Protein Lysate
Product Gene Name	SCN3B lysate
Product Synonym Names	SCN3B; ATFB16; BRGDA7; HSA243396; SCNB3
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	18.1 kDa (160aa)
OMIM	608214
3D Structure	ModBase 3D Structure for Q9NY72
Related Product Information for SCN3B lysate	Human SCN3B Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of SCN3B lysate 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 SCN3B purchase	MBS8419114 is a lysate targeting SCN3B. Also known as Human SCN3B Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SCN3B. It may not necessarily be applicable to this product.

NCBI GI #	9055238
NCBI GeneID	55800
NCBI Accession #	NP_060870
UniProt Primary Accession #	Q9NY72
UniProt Secondary Accession #	Q17RL3; Q9ULR2; A5H1I5
UniProt Related Accession #	Q9NY72
GenBank Nucleotide #	NM_018400
NCBI Official Full Name	sodium channel subunit beta-3
NCBI Official Synonym Full Names	sodium voltage-gated channel beta subunit 3
NCBI Official Symbol	SCN3B
NCBI Official Synonym Symbols	SCNB3; ATFB16; BRGDA7; HSA243396
UniProt Protein Name	Sodium channel subunit beta-3
Protein Family	Sodium channel

UniProt Gene Name	SCN3B
UniProt Synonym Gene Names	KIAA1158
UniProt Entry Name	SCN3B_HUMAN
NCBI Protein Information	sodium channel subunit beta-3
NCBI Summary for SCN3B	Voltage-gated sodium channels are transmembrane glycoprotein complexes composed of a large alpha subunit and one or more regulatory beta subunits. They are responsible for the generation and propagation of action potentials in neurons and muscle. This gene encodes one member of the sodium channel beta subunit gene family, and influences the inactivation kinetics of the sodium channel. Two alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for SCN3B	SCN3B: Modulates channel gating kinetics. Causes unique persistent sodium currents. Inactivates the sodium channel opening more slowly than the subunit beta-1. Its association with neurofascin may target the sodium channels to the nodes of Ranvier of developing axons and retain these channels at the nodes in mature myelinated axons. Defects in SCN3B are the cause of Brugada syndrome type 7 (BRGDA7). A tachyarrhythmia characterized by right bundle branch block and ST segment elevation on an electrocardiogram (ECG). It can cause the ventricles to beat so fast that the blood is prevented from circulating efficiently in the body. When this situation occurs (called ventricular fibrillation), the individual will faint and may die in a few minutes if the heart is not reset. Belongs to the sodium channel auxiliary subunit SCN3B (TC 8.A.17) family. Protein type: Membrane protein, integral; Channel, sodium Chromosomal Location of Human Ortholog: 11q23.3 Cellular Component: voltage-gated sodium channel complex; plasma membrane; integral to membrane; Z disc Molecular Function: sodium channel regulator activity; voltage-gated sodium channel activity Biological Process: membrane depolarization; nervous system development; sodium ion transport; positive regulation of heart rate; sensory perception of pain; cardiac muscle contraction Disease: Brugada Syndrome 7
Research Articles on SCN3B	**1.** Contribution of Cardiac Sodium Channel beta-Subunit Variants to Brugada Syndrome.
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