Sodium Channel Protein Type 11 Subunit Alpha (SCN11A) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Sodium channel protein type 11 subunit alpha (Scn11a), Recombinant Protein
Full Product Name	Recombinant Rat Sodium channel protein type 11 subunit alpha (Scn11a) , partial
Product Gene Name	Scn11a recombinant protein
Sequence	MEERYYPVIF PDERNFRPFT SDSLAAIEKR IAIQKERKKS KDKAAAEPQP RPQLDLKASR KLPKLYGDIP PELVAKPLED LDPFYKDHKT FMVLNKKRTI YRFSAKRALF ILGPFNPLRS LMIRIS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	201,845 Da
Sequence Positions	1-126aa; Partial-length
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for O88457
Species	Rattus norvegicus (Rat)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Scn11a recombinant protein	MBS1155065 is a recombinant protein targeting Scn11a. Also known as Recombinant Rat Sodium channel protein type 11 subunit alpha (Scn11a) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Scn11a 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 Scn11a. It may not necessarily be applicable to this product.

NCBI GI #	9507065
NCBI GeneID	29701
NCBI Accession #	NP_062138.1
UniProt Primary Accession #	O88457
UniProt Related Accession #	O88457
GenBank Nucleotide #	NM_019265.2
NCBI Official Full Name	sodium channel protein type 11 subunit alpha

NCBI Official Synonym Full Names	sodium voltage-gated channel alpha subunit 11
NCBI Official Symbol	Scn11a
NCBI Official Synonym Symbols	NaN
UniProt Protein Name	Sodium channel protein type 11 subunit alpha
UniProt Synonym Protein Names	NaN; Sensory neuron sodium channel 2; Sodium channel protein type XI subunit alpha; Voltage-gated sodium channel subunit alpha Nav1.9
Protein Family	Sodium channel protein
UniProt Gene Name	Scn11a
UniProt Synonym Gene Names	Nan; Sns2
NCBI Protein Information	sodium channel protein type 11 subunit alpha
NCBI Summary for Scn11a	Na channel alpha-subunit; may be involved in generation of electrical activity in peripheral sensory neurons [RGD, Feb 2006]
UniProt Comments for Scn11a	This protein mediates the voltage-dependent sodium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a sodium-selective channel through which sodium ions may pass in accordance with their electrochemical gradient. It is a tetrodotoxin-resistant sodium channel isoform. Also involved, with the contribution of the receptor tyrosine kinase NTRK2, in rapid BDNF-evoked neuronal depolarization ().
Research Articles on Scn11a	**1.** The mRNA expression of the SCN11a gene (which encodes the Nav1.9 channel) in mPFC tissue was significantly higher in young rats than in late adolescent and adult rats.
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