



# Recombinant Protein Technical Manual

## Recombinant Human SCN3B Protein (His Tag)

RPES4915

### Product Data:

**Product SKU:** RPES4915

**Size:** 20µg

**Species:** Human

**Expression host:** HEK293 Cells

**Uniprot:** Q9NY72

### Protein Information:

**Molecular Mass:** 17.2 kDa

**AP Molecular Mass:** 29 & 34 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** ATFB16;BRGDA7;HSA243396;SCNB3

## Immunogen Information:

**Sequence:** Met 1-Glu159

## Background:

SCN3B (sodium channel, voltage-gated, type III, beta ,human IgG1-Fc chimera) belongs to the sodium channel auxiliary subunit SCN3B family. It contains 1 Ig-like C2-type (immunoglobulin-like) domain. 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. SCN3B 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. Defects in SCN3B are the cause of Brugada syndrome type 7. A tachyarrhythmia characterized by right bundle branch block and ST segment elevation on an electrocardiogram. 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.