Recombinant Human SCN3B Protein (His Tag)

Catalog Number: PKSH030618



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms ATFB16;BRGDA7;HSA243396;SCNB3

Species Human

Expression Host

Sequence

Met 1-Glu159

Accession

Q9NY72

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Met 1-Glu159

29NY72

17.2 kDa

29&34 kDa

C-His

Properties

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

Endotoxin $< 1.0 \text{ EU per } \mu \text{g of the protein as determined by the LAL method.}$

Storage Generally, 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

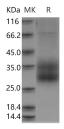
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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

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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.

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