

## Recombinant Human SCN11A protein, His-tagged

**Cat. No.** SCN11A-3910H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SCN11A protein(812-1051 aa), fused to His tag, was expressed in E. coli.                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 812-1051 aa                                                                                                                                                                                                                                                                         |
| <b>Form</b>             | The purified protein was Lyophilized from sterile PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH7.4). 5 % trehalose and 5 % mannitol are added as protectant before lyophilization. The elution buffer contain 300mM imidazole. |
| <b>AA Sequence</b>      | NSFSNEERNNGNLEGEARKTKVQLALDRFRRAFCFVRHTLEHFCHKWCRKQNLPPQ<br>KEVAGGCAAQSKDIPLVMEMKRGSETQEELGILTSVPKTLGVRHDWTWLAPLAEEE<br>DDVEFSGEDNAQRITQPEPEQQAYELHQENKKPTSQRVQSVEIDMFSEDEPHLTIQ<br>DPRKKSDVTSILSECSTIDLQDGFGLPEMVPKKQPERCLPKGFGCCFPCCSVDKR<br>KPPWVIWWNLRKTCYQ                     |
| <b>Purity</b>           | 90%, by SDS-PAGE with Coomassie Brilliant Blue staining.                                                                                                                                                                                                                            |
| <b>Storage</b>          | Short-term storage: Store at 2-8°C for (1-2 weeks).<br>Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.                                                |

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|                       |                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------|
| <b>Reconstitution</b> | Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage.                |
|                       | Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage. |

## GENE INFORMATION

**Gene Name** SCN11A sodium channel, voltage-gated, type XI, alpha subunit [ Homo sapiens ]

**Official Symbol** SCN11A

**Synonyms** SCN11A; sodium channel, voltage-gated, type XI, alpha subunit; SCN12A, sodium channel, voltage gated, type XI, alpha polypeptide , sodium channel, voltage gated, type XII, alpha; sodium channel protein type 11 subunit alpha; NaN; Nav1.9; SNS 2; PN5; hNaN; sensory neuron sodium channel 2; peripheral nerve sodium channel 5; voltage-gated sodium channel Nav1.9; sodium channel protein type XI subunit alpha; voltage-gated sodium channel subunit alpha Nav1.9; sodium channel, voltage-gated, type XI, alpha polypeptide; sodium channel, voltage-gated, type XII, alpha polypeptide; SNS-2; NAV1.9; SCN12A;

**Gene ID** 11280

**mRNA Refseq** NM\_014139

**Protein Refseq** NP\_054858

**MIM** 604385

**UniProt ID** Q9UI33

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