Recombinant Human sodium voltage-gated channel alpha subunit 5 Protein, His tagged

Cat. No. SCN5A-13H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human sodium channel, voltage-gated, type V, alpha subunit (SCN5A), transcript variant 1, 450Ile-650Val, with N-terminal His tag, expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	450-650aa
Description	The protein encoded by this gene is an integral membrane protein and tetrodotoxin-resistant voltage-gated sodium channel subunit. This protein is found primarily in cardiac muscle and is responsible for the initial upstroke of the action potential in an electrocardiogram. Defects in this gene are a cause of long QT syndrome type 3 (LQT3), an autosomal dominant cardiac disease. Alternative splicing results in several transcript variants encoding different isoforms.
Tag	N-His
Molecular Mass	23.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Notes	For testing in cell culture applications, please filter before use. Note that you may

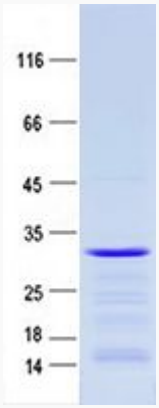
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	experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Storage Buffer	50 mM Tris-HCl, pH 8.0, 8 M urea
Concentration	> 0.05 μg/μL as determined by microplate BCA method

GENE INFORMATION

Gene Name	SCN5A sodium voltage-gated channel alpha subunit 5 [Homo sapiens (human)]
Official Symbol	SCN5A
Synonyms	SCN5A; sodium channel, voltage-gated, type V, alpha subunit; CMD1E, sodium channel, voltage gated, type V, alpha (long QT syndrome 3); sodium channel protein type 5 subunit alpha; CDCD2; CMPD2; HB1; HB2; HBBD; HH1; ICCD; IVF; long QT syndrome 3; LQT3; Nav1.5; PFHB1; SSS1; voltage-gated sodium channel subunit alpha Nav1.5; sodium channel protein cardiac muscle subunit alpha; cardiac tetrodotoxin-insensitive voltage-dependent sodium channel alpha subunit; VF1; CMD1E;
Gene ID	6331
mRNA Refseq	NM_198056
Protein Refseq	NP_932173

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MIM	600163
UniProt ID	Q14524
SDS-PAGE /Western-blot	

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