

PRODUCT INFORMATION

Tag C-Flag Tag SCN2A **Target**

CDCD2; CMD1E; CMPD2; HB1; HB2; HBBD; HH1; ICCD; IVF; LQT3; Nav1.5; PFHB1; SSS1; VF1 **Synonyms** Human SCN2A full length protein-synthetic

Description nanodisc

Delivery In Stock **Uniprot ID** Q99250 **Expression Host HEK293**

Druggable Genome, Ion Channels: Sodium, **Protein Families**

Transmembrane

Protein Pathways

Formulation &

Reconstitution

Storage & Shipping

Background

The human full length SCN2A protein has a MW of **Molecular Weight**

228.0 kDa

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis

for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient

temperature.

Voltage-gated sodium channels are transmembrane glycoprotein complexes composed of a large alpha subunit with four repeat domains, each of which is composed of six membrane-spanning segments, and one or more regulatory beta subunits. Voltage-gated sodium

channels function in the generation and

propagation of action potentials in neurons and muscle. This protein is one member of the sodium channel alpha subunit gene family. Allelic variants of this gene are associated with seizure disorders

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and autism spectrum disorder.

Usage Research use only

Conjugate Unconjugated





ELISA assay to evaluate SCN2A-Nanodisc 0.2µg Human SCN2A-Nanodisc per well

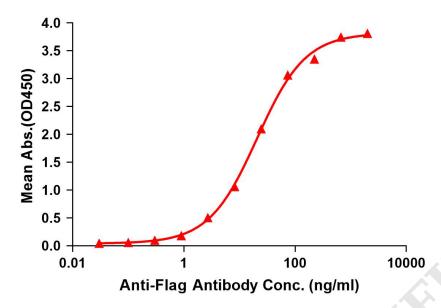


Figure 1. Elisa plates were pre-coated with Flag Tag SCN2A-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with SCN2A-Nanodisc is 20.82ng/ml.

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Figure 2. Human SCN2A-Nanodisc, Flag Tag on SDS-PAGE