

## **PRODUCT INFORMATION**

C-Flag&Strep Tag Tag

SCN8A **Target** 

BFIS5; CERIII; CIAT; DEE13; EIEE13; MED; **Synonyms** 

MYOCL2; NaCh6; Nav1.6; PN4

Human SCN8A-Strep full length protein-synthetic Description

nanodisc

**Delivery** In Stock **Uniprot ID** Q9UQD0 **Expression Host HEK293** 

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

Transmembrane

**Protein Pathways** 

Formulation &

Reconstitution

Storage & Shipping

**Background** 

The human full length SCN8A-Strep protein has a MW of 225.3 kDa **Molecular Weight** 

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.

A member of the sodium channel alpha subunit gene family. The encoded protein forms the ion pore region of the voltage-gated sodium channel. This protein is essential for the rapid membrane

depolarization that occurs during the formation of

Email: info@dimabio.com Website: www.dimabio.com

the action potential in excitable neurons. Mutations in this gene are associated with cognitive disability, pancerebellar atrophy and

ataxia.

Usage Research use only Conjugate Unconjugated





## ELISA assay to evaluate SCN8A-Strep-Nanodisc 0.2µg Human SCN8A-Strep-Nanodisc per well

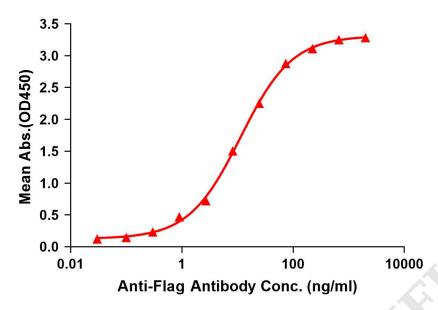


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag SCN8A-Strep-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with SCN8A-Strep-nanodisc is 11.37ng/ml.



Figure 2. Human SCN8A-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE



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