

**HDFP1350**

## Product Information

|                     |          |                         |                  |              |      |
|---------------------|----------|-------------------------|------------------|--------------|------|
| <b>Product SKU:</b> | HDFP1350 | <b>Expression Host:</b> | HEK293           | <b>Size:</b> | 10µg |
| <b>Target:</b>      | SCN8A    | <b>Tag:</b>             | C-Flag&Strep Tag |              |      |

## Additional Information

|                          |   |                    |        |
|--------------------------|---|--------------------|--------|
| <b>Conjugate:</b>        | Unconjugated  | <b>Uniprot ID:</b> | Q9UQD0 |
| <b>Molecular Weight:</b> | The human full length SCN8A-Strep protein has a MW of 225.3 kDa |                    |        |

## Protein Information

**Background:** This gene encodes 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 the action potential in excitable neurons. Mutations in this gene are associated with cognitive disability, pancerebellar atrophy and ataxia. Alternate splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

**Synonyms:** BFIS5, CERIII, CIAT, DEE13, EIEE13, MED, MYOCL2, NaCh6, Nav1.6, PN4

**Protein Description:** Human SCN8A-Strep full length protein-synthetic nanodisc

**Formulation:** 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.

**Protein Pathways:** -

**Protein Families:** Ion Channels: Sodium.

**Usage:** Research use only

**Storage & Shipping:** 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.