PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	SCN8A
Synonyms	BFIS5; CERIII; CIAT; DEE13; EIEE13; MED; MYOCL2; NaCh6; Nav1.6; PN4
Description	Human SCN8A-Strep full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	Q9UQD0
Expression Host	HEK293
Protein Families	Druggable Genome, Ion Channels: Sodium, Transmembrane
Protein Pathways	N/A
Molecular Weight	The human full length SCN8A-Strep protein has a MW of 225.3 kDa
Formulation & Reconstitution	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.
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.
Background	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.
Usage	Research use only
Conjugate	Unconjugated

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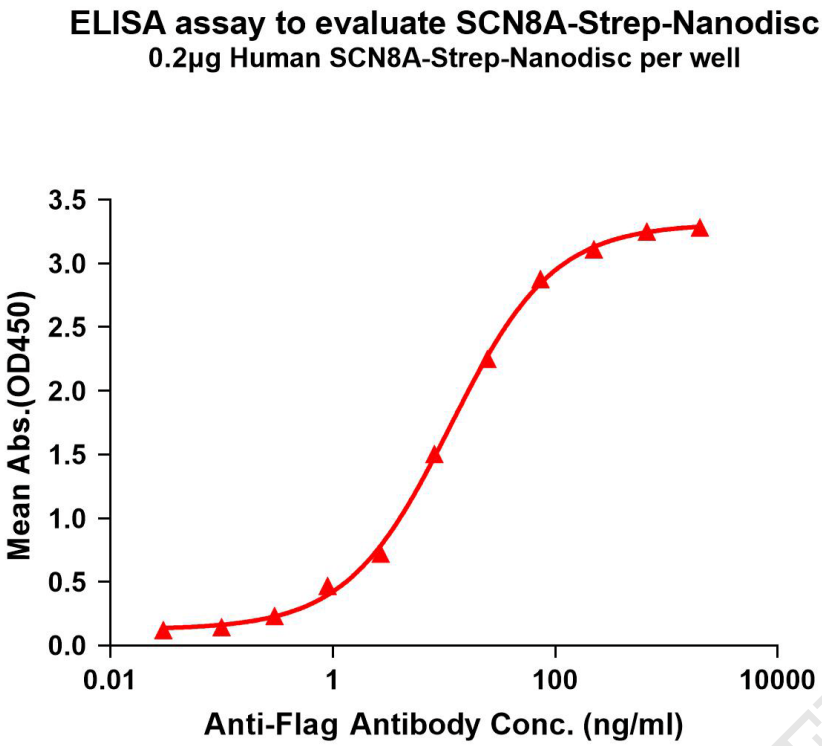

Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag SCN8A-Strep-Nanodisc (0.2μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding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