

PRODUCT INFORMATION

Target NPC1L1

Synonyms LDLCQ7; NPC11L1; SLC65A2

DescriptionHuman NPC1L1 full length protein-synthetic

nanodisc In Stock Q9UHC9

Expression Host HEK293

Protein Families Druggable Genome, Transmembrane

Protein Pathways N/A

Molecular Weight

The human full length NPC1L1 protein has a MW

of 148.7 kDa

Formulation & Reconstitution

Delivery

Uniprot ID

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 pH lower than 6.5 in subsequent experiments. The protein is a multi-pass membrane protein. It contains a conserved N-terminal Niemann-Pick C1 (NPC1) domain and a putative sterol-sensing domain (SSD) which includes a YQRL motif functioning as a plasma membrane to trans-Golgi network transport signal in other proteins. This protein takes up free cholesterol into cells through vesicular endocytosis and plays a critical role in the absorption of intestinal cholesterol. It

Backgroundrole in the absorption of intestinal cholesterol. It also has the ability to transport alpha-tocopherol

(vitamin E). The drug ezetimibe targets this protein and inhibits the absorption of intestinal cholesterol and alpha-tocopherol. In addition, this protein may play a critical role in regulating lipid metabolism. Polymorphic variations in this gene are associated with plasma total cholesterol and low-density lipoprotein cholesterol (LDL-C) levels

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low-density lipoprotein cholesterol (LDL-C) levels and coronary heart disease (CHD) risk. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

Storage & Shipping intended for use within a month, aliquot and store at -80°C(Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

Usage Research use only





ELISA assay to evaluate NPC1L1-Nanodisc 0.2µg Human NPC1L1-Nanodisc per well

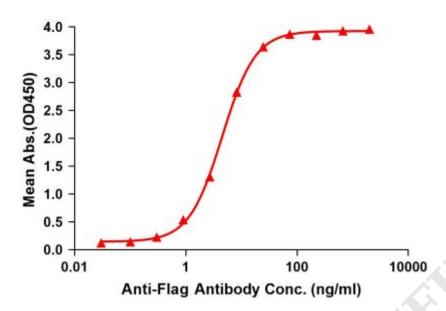


Figure 1. Elisa plates were pre-coated with Flag Tag NPC1L1-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with NPC1L1-Nanodisc is 4.526 ng/ml.

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Figure 2. Human NPC1L1-Nanodisc, Flag Tag on SDS-PAGE



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