

## **PRODUCT INFORMATION**

Tag C-Flag Tag
Target NPC1L1

**Synonyms** LDLCQ7; NPC11L1; SLC65A2

**Description**Human NPC1L1 full length protein-synthetic

Delivery In Stock
Uniprot ID Q9UHC9
Expression Host HEK293

**Protein Families** Druggable Genome, Transmembrane

Protein Pathways N/A

Background

Formulation &

Reconstitution

Storage & Shipping

Molecular Weight

The human full length NPC1L1 protein has a MW

of 148.7 kDa

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 also has the ability to transport alpha-tocopherol

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 and coronary heart disease (CHD) risk.

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(Ayoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient temperature.

Usage Research use only
Conjugate Unconjugated

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





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

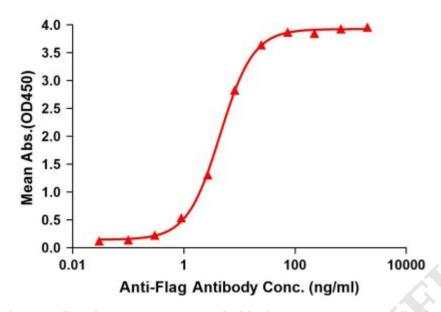


Figure 1. Elisa plates were pre-coated with Flag Tag NPC1L1-Nanodisc ( $0.2\mu g/per$  well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with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



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

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

