

PRODUCT INFORMATION

C-Flag&Strep Tag Tag

Target NPC1L1

Synonyms LDLCQ7; NPC11L1; SLC65A2

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

nanodisc **Delivery** 6~8weeks **Uniprot ID** Q9UHC9 **Expression Host HEK293**

Druggable Genome, Transmembrane **Protein Families**

Protein Pathways N/A

Background

The human full length NPC1L1-Strep protein has a **Molecular Weight**

MW of 148.7 kDa

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before Formulation & lyophilization. Please see Certificate of Analysis Reconstitution for specific instructions. Do not use solvents with

pH lower than 6.5 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

Storage & Shipping at -80°C(Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

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 (vitagin E). The drug cratiginal targets this

(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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and coronary heart disease (CHD) risk.

Usage Research use only Conjugate Unconjugated

