

HUMAN NPC1L1 FULL LENGTH PROTEIN

目录: 11070

产品名称: Human NPC1L1 Full Length Protein

规格: 10 µg, 50 µg and 100 µg

基因符号: LDLQC7; NPC1L1; SLC65A2

Target: NPC1L1

UNIPROT ID: Q9UHC9

描述: Human NPC1L1 full length protein-synthetic nanodisc

背景: 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 (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.

Species/Host: HEK293

Molecular Weight: The human full length NPC1L1 protein has a MW of 148.7 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.

储存和运输: 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.

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

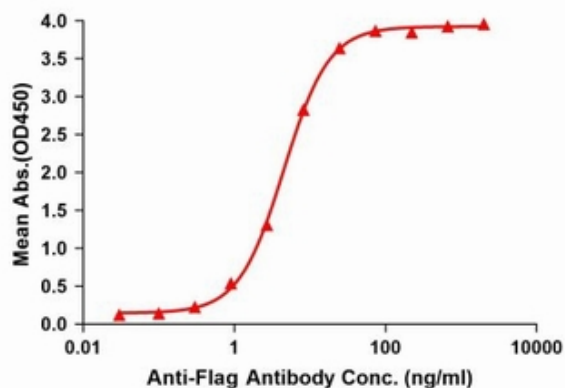


Figure1. Elisa plates were pre-coated with Flag Tag NPC1L1-Nanodisc (0.2 µg/per well). Serial diluted Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for Flag monoclonal antibody binding with NPC1L1-Nanodisc is 4.526ng/ml.



Figure2. Human NPC1L1-Nanodisc, Flag Tag on SDS-PAGE