Human NPC1L1 Protein, His Tag

Cat. No. PME100720

PRODUCT INFORMATION

Target	NPC1L1
Synonyms	NPC1-like intracellular cholesterol transporter 1;Niemann-Pick C1-like protein 1
Description	Recombinant human NPC1L1 protein with C-terminal 6×His tag
Delivery	In Stock
Uniprot ID	Q9UHC9
Expression Host	HEK293
Tag	C-6×His Tag
Molecular Characterization	NPC1L1(Glu22-Ser284) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 28.8 kDa after removal of the signal peptide. The apparent molecular mass of NPC1L1-His is approximately 35-55 kDa due to glycosylation.
Purity	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
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	The protein encoded by this gene 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]
Usage	Research use only
Conjugate	Unconjugated

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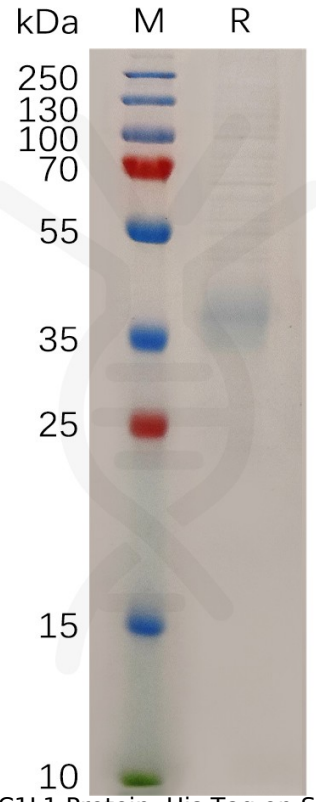


Figure 1. Human NPC1L1 Protein, His Tag on SDS-PAGE under reducing condition.

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