

Recombinant Human PLTP Protein (His Tag)

Catalog Number: PKSH031227

Note: Centrifuge before opening to ensure complete recovery of vial contents.

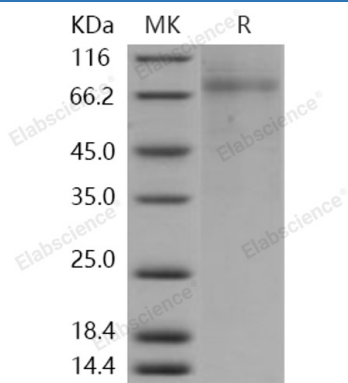
Description

Species	Human
Source	HEK293 Cells-derived Human PLTP protein Met 1-Val 493, with an C-terminal His
Calculated MW	54.5 kDa
Observed MW	70-80 kDa
Accession	P55058-1
Bio-activity	Not validated for activity

Properties

Purity	> 80 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 80 % as determined by reducing SDS-PAGE.

Background

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Phospholipid transfer protein, also known as Lipid transfer protein II and PLTP, is a secreted protein which belongs to the BPI/LBP/Plunc superfamily and BPI / LBP family. PLTP is nearly ubiquitously expressed in cells and tissues. PLTP converts HDL into larger and smaller particles. It may play a key role in extracellular phospholipid transport and modulation of hdl particles. High-density lipoproteins (HDL) play a major protective role against the development of coronary artery disease. PLTP is a main factor regulating the size and composition of HDL in the circulation and plays an important role in controlling plasma HDL levels. This is achieved via both the phospholipid transfer activity of PLTP and its capability to cause HDL conversion. PLTP is one of the key lipid transfer proteins in plasma and cerebrospinal fluid. It is involved in novel intracellular functions. PLTP is an important modulator of lipoprotein metabolism, including interparticle phospholipid transfer, remodeling of HDL, cholesterol and phospholipid efflux from peripheral tissues, and the production of hepatic VLDL. PLTP also plays an important role in inflammation and oxidative stress. Accordingly, PLTP has also been implicated in the development of atherosclerosis.

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