PLTP Protein, Human (HEK293, His)

Cat. No.:	HY-P74625
Synonyms:	Phospholipid transfer protein; Lipid transfer protein II; PLTP
Species:	Human
Source:	HEK293
Accession:	P55058 (E18-V493)
Gene ID:	5360
Molecular Weight:	70-80 kDa

PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	PLTP Protein assumes a central role in lipid metabolism by mediating the transfer of phospholipids and free cholesterol from triglyceride-rich lipoproteins (low-density lipoproteins or LDL and very low-density lipoproteins or VLDL) into high-density lipoproteins (HDL), as well as facilitating the exchange of phospholipids among triglyceride-rich lipoproteins. This extensive lipid transfer encompasses various molecules, including diacylglycerol, phosphatidic acid, sphingomyelin, phosphatidylcholine, phosphatidylinositol, phosphatidylglycerol, cerebroside, and phosphatidyl ethanolamine. PLTP further plays a crucial role in remodeling HDL, influencing its size and composition. Additionally, the protein is a key player in the uptake of cholesterol from peripheral cells and tissues, facilitating its transport to the liver for degradation and excretion. Notably, two distinct forms of PLTP exist in plasma: an active form capable of transferring phosphatidylcholine from phospholipid vesicles to HDL, and an inactive form lacking this capability, contributing to the nuanced regulation of lipid homeostasis.

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