

Recombinant Human LPL protein (His Tag)

Catalog Number: PDEH101051

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

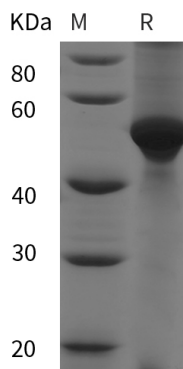
Description

Species	Human
Source	E.coli-derived Human LPL protein Ala28-Gly475, with an N-terminal His
Calculated MW	49.2 kDa
Observed MW	55 kDa
Accession	P06858
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg 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 a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

LPL (LipoProtein Lipase, also LIPD) is a 53-56 kDa glycoprotein member of the Lipase family, AB Hydrolase superfamily of molecules. It is produced by multiple cell types, including adipocytes, skeletal muscle cells and macrophages. Once secreted, the circulating enzyme ultimately becomes immobilized on the surface of endothelium by binding to cell surface heparan sulfate. Here, it hydrolyzes triglycerides embedded in chylomicrons and VLDLs by homodimerizing and interacting with apoC2.