Data Sheet (Cat.No.TMPY-00557)

TargetMol

GPIHBP1 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	glycosylphosphatidylinositol anchored high density lipoprotein binding protein 1;HYPL1D; GPI-HBP1
Protein Construction:	Thr22-Gly151
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8IV16
Molecular Weight:	41.7 kDa (predicted); 50-65 kDa (Reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it.
Purity:	> 95 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

GPIHBP1 (Glycosylphosphatidylinositol Anchored High-Density Lipoprotein Binding Protein 1) is a Protein Coding gene. The encoded protein is a member of the lymphocyte antigen 6 (Ly6) family. GPIHBP1 is an endothelial cell protein, which binds LPL in the subendothelial spaces and transports it to the capillary lumen. GPIHBP1 was positively correlated with LPL, and GPIHBP1 is a better marker for bodyweight decrease than LPL. GPIHBP1, a glycosylphosphatidylinositol (GPI)-anchored protein of capillary endothelial cells, transports lipoprotein lipase to the capillary lumen and is essential for the lipolytic processing of triglyceride-rich lipoproteins. Diseases

associated with GPIHBP1 include Hyperlipoproteinemia, Type Id, and Hyperlipoproteinemia, Type I.

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