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Recombinant Mouse ANGPTL3 Protein (His Tag)

Catalog No. PKSM041360

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

Description

Synonyms Angiopoietin-related Protein 3;Angiopoietin-like protein 3;Angptl3

Species Mouse

Expression Host HEK293 Cells
Sequence Ser17-Thr206
Accession Q9R182
Calculated Molecular Weight 22.7 kDa
Observed molecular weight 25-30 kDa
Tag C-His

Bioactivity Not validated for activity

Properties

Purity > 95 % 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 a 0.2 µm filtered solution of PBS, pH 7.4.

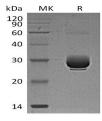
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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



> 95 % as determined by reducing SDS-PAGE.

Background

Angiopoietin-likeProtein 3 (ANGPTL3) is a secreted glycoprotein that is structurally related to the angiopoietins. Mature mouse ANGPTL3 contains an N-terminalcoiled coil domain and a C-terminalfibrinogen-likedomain. Within the

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Nterminalfragment, mouse ANGPTL3 shares 83% and 92% aa sequence identity with human and rat ANGPTL3, respectively. ANGPTL3 is expressed in the liver from early in development through adulthood. ANGPTL3 directly inhibits lipoprotein lipase (LPL) and endothelial lipase (EL), enzymesresponsible for hydrolyzing circulating triglycerides and HDL phospholipids. This activity requires a putative heparin-bindingmotif which is N-terminalto the coiled coil domain. Proteolytic removal of the fibrinogen-likedomain from the N-terminalfragment serves to activate ANGPTL3 and increase its ability toinhibit LPL in vitro and function in vivo. ANGPTL3 promotes an increase in circulating triglyceride levels without altering VLDL or HDL secretion oruptake. ANGPTL3 expression in vivo is up-regulatedby LXR agonists anddown-regulated by insulin, leptin, and agonists of TR\$\textit{\textit{TR}}\$ or PPAR\$\textit{\textit{B}}\$. ANGPTL3, secreted by fetal liver cells, also promotes the expansion of hematopoietic stem cells.

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