

ANGPTL3 (Ser17-Thr206) (C-6His), Mouse, Recombinant

Cat. No. : PCK226

General Information

Synonyms	Angiopoietin-related Protein 3;Angiopoietin-like Protein 3;Angptl3
Species	Mouse
Expression host	Human Cells
Sequence	Ser17-Thr206
Accession	Q9R182
Mol mass	22.7 kDa
Expiration date	12 months

Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Background

Angiopoietin-like Protein 3 (ANGPTL3) is a secreted glyco Protein that is structurally related to the angiopoietins. Mature mouse ANGPTL3 contains an N-terminalcoiled coil domain and a C-terminalfibrinogen-likedomain. Within the Nterminalfragment, mouse ANGPTL3 shares 83% and 92% aa sequence identity with human and rat ANGPTL 3, respectively. ANGPTL3 is expressed in the liver from early in development through adulthood. ANGPTL3 directly inhibits lipo Protein 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 thecoiled 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-regulatedby insulin, leptin, and agonists of TRβ or PPARβ. ANGPTL 3, secreted by fetal liver cells, also promotes the expansion of hematopoietic stem cells.

SDS-PAGE

