Datasheet for ABIN6972943

ANGPTL3 Protein (AA 17-220) (His tag,AVI tag,Biotin)

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Overview

Quantity:	200 µg
Target:	ANGPTL3
Protein Characteristics:	AA 17-220
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ANGPTL3 protein is labelled with His tag,AVI tag,Biotin.

Product Details

Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	Biotinylated Human Angiopoietin-like 3 / ANGPTL3 Protein, His,Avitag™
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	ANGPTL3
Alternative Name:	Angiopoietin-like 3 (ANGPTL3 Products)
Background:	Angiopoietin-like protein 3 (ANGPTL3) is also known as Angiopoietin-related protein 3,

Target Details

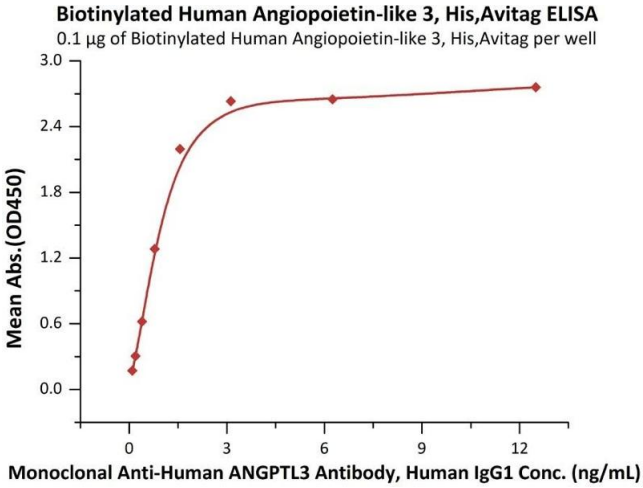
	Angiopoietin-5 (ANGPT5 / ANG-5), is a member of the angiopoietin-like family of secreted factors. ANGPTL3 / ANGPT5 is predominantly expressed in the liver, and has the characteristic structure of angiopoietins, consisting of a signal peptide, N-terminal coiled-coil domain and the C-terminal fibrinogen (FBN)-like domain. The FBN-like domain in angiopoietin-like 3 protein was shown to bind alpha-5/beta-3 integrins, and this binding induced endothelial cell adhesion and migration. This protein may also play a role in the regulation of angiogenesis. Angptl3 also acts as dual inhibitor of lipoprotein lipase (LPL) and endothelial lipase (EL), and increases plasma triglyceride and HDL cholesterol in rodents. ANGPTL3 inhibit endothelial lipase to catalyze HDL-phospholipid and increase HDL-PL levels. Circulating PL-riched HDL particles have high cholesterol efflux abilities.
Molecular Weight:	27.4 kDa
NCBI Accession:	NP_055310

Application Details

Comment:	Ready-to-use Avitag™ biotinylated protein: The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA. This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.
Restrictions:	For Research Use only

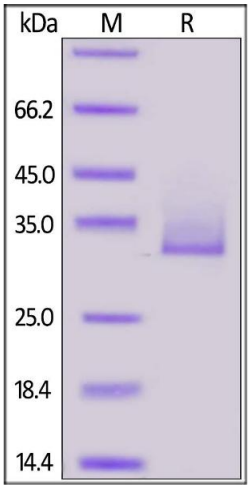
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	-20 °C



ELISA

Image 1. Immobilized Biotinylated Human Angiopoie 3, His,Avitag (ABIN6972943) at 1 µg/mL (100 µL/well) on Streptavidin precoated (0.5 µg/well) plate, can bind Monoclonal A ANGPTL3 Antibody, Human IgG1 with a linear range of 0.1-2 ng/mL (QC tested).



SDS-PAGE

Image 2. Biotinylated Human Angiopoie 3, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .