

Human ANGPTL5 Protein (GST Tag)

Catalog Number: 11094-H09B



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

ANGPTL5

Protein Construction:

A DNA sequence encoding the mature form of human ANGPTL5 (NP_835228.2) (Asn 26-Lys 388) was fused with the GST tag at the N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human ANGPTL5/GST chimera consists of 588 amino acids and predicts a molecular mass of 68 kDa as estimated in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8, 0.5mM GSH, 0.5mM PMSF, 0.5mM EDTA

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

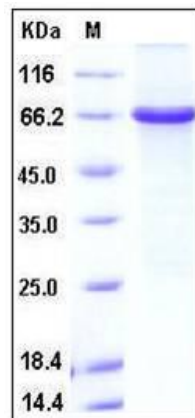
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

Angiopoietin-related protein 5, also known as, Angiopoietin-like 5 and ANGPTL5, is a member of the Angiopoietin family. Angiopoietin family consists of ANGPT1, ANGPT2, ANGPT4, ANGPTL1 (ANGPT3), ANGPTL2, ANGPTL3 (ANGPT5), ANGPTL4, ANGPTL5, ANGPTL6 and ANGPTL7. They are secreted proteins possessing an amino-terminal coiled-coil domain and a carboxyl-terminal fibrinogen-like domain and are known as angiogenic factors. They act as growth factors that promote angiogenesis, the formation of blood vessels from pre-existing blood vessels. Like other members of the angiopoietin family, ANGPTL5 protein also has an N-terminal cleavable signal peptide, a predicted coiled-coil domain, and a fibrinogen-like domain. ANGPTL5 is mainly expressed in adult human heart. Loss of function mutations of ANGPTL3, ANGPTL4, and ANGPTL5 are associated with a low triglyceride concentration. They are regulators of lipoprotein metabolism in humans. Inhibition of these ANGPTLs will be useful for dyslipidemia to prevent cardiovascular disease.

References

1. Zeng, L. et al., 2003, J Hum Genet. 48 (3): 159-62.
2. Katoh, Y. et al., 2006, Int J Mol Med. 17 (6): 1145-9.
3. Niki, D. et al., 2009, Dev Growth Differ. 51 (9): 821-32.
4. Miida, T. et al., 2009, Curr Opin Lipidol.

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