Human Angiopoietin 4 / ANG4 / ANGPT4 Protein (Fc Tag)

Catalog Number: **10293-H01H**

Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

AGP4, ANG-3, ANG4

Protein Construction:

A DNA sequence encoding the human ANGPT4 (Q9Y264) C-terminal fragment (Met 282-Ile 503) was fused with the Fc region of human IgG1 at the N-terminus.

Source: Human

Expression Host: Human 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 ℃

Predicted N terminal: Glu

Molecular Mass:

The recombinant human ANGPT4/Fc chimera is a disulfide-linked homodimeric protein. The reduced monomer consists of 483 amino acids and has a calculated molecular mass of 53.7 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhANGPT4/Fc monomer is approximately 66 kDa due to the glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

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.

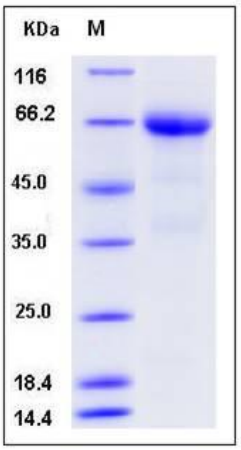
Usage Guide

Storage:

Store it under sterile conditions at -20℃ to -80℃ 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 4, also known as ANG-4 or ANGPT4, is a protein belonging to the angiopoietin family and is highly expressed in the lung with much lower levels found in other tissues. Angiopoietin 4 / ANG-4 / ANGPT4 is a protein with important roles in vascular development and angiogenesis. All angiopoietins bind with similar affinity to an endothelial cell-specific tyrosine-protein kinase receptor. The mechanism by which they contribute to angiogenesis is thought to involve regulation of endothelial cell interactions with supporting perivascular cells. The protein encoded by this gene functions as an agonist and is an angiopoietin. Angiopoietin 4 secreted ligand for the vascular endothelial restricted receptor tyrosine kinase TEK,including phosphorylation of TEK,promoting angiogenic remodeling as well as vessel maturation and stabilization,predominantly expressed in lung.

References

1. Grosios K. et al., 1999, Cell Genet. 84 (1-2): 118-20.
2. Yamakawa M. et al., 2004, Am J Physiol Renal Physiol. 287 (4): 649-57.
3. Oliner J. et al., 2004, Cancer Cell. 6 (5): 507-16.