

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

Catalog Number: 10293-H07H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

ANGPT4, ANG3, ANG4

Protein Construction:

A DNA sequence encoding the human ANGPT4 (NP_068769.2) (Met282-Ile503) was expressed, with an N-terminal polyhistidine tag.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 80 % 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: His

Molecular Mass:

The recombinant human ANGPT4 comprises 242 amino acids and has a predicted molecular mass of 27.6 kDa. The apparent molecular mass of the protein is approximately 38 kDa in SDS-PAGE under reducing conditions due to 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.

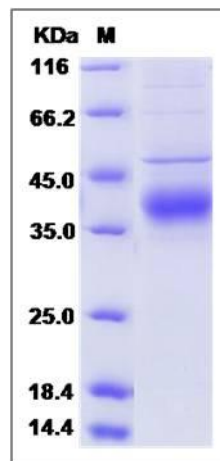
Usage Guide

Storage:

Store it under sterile conditions at -20°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 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.

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