Mouse VEGF-D / VEGFD / FIGF Protein (His Tag)

Catalog Number: **50157-M08H**

Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

AI325264; VEGF-D; Vegfd

Protein Construction:

A DNA sequence encoding the mouse FIGF (P97946) (Phe98-Ser206) was expressed with a C-terminal polyhistidine tag.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:

Measured by its ability to bind with mouse FLT4-Fc (Cat:50584-M02H) in a functional ELISA.

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: Phe 98

Molecular Mass:

The recombinant mouse FIGF comprises 120 amino acids and has a predicted molecular mass of 14 kDa. The apparent molecular mass of the protein is approximately 22 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 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:

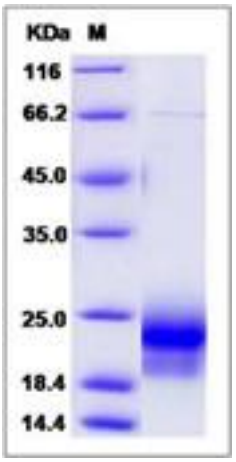
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Vascular endothelial growth factor D (VEGF-D), also known as C-fos induced growth factor (FIGF), belongs to the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family. FIGF protein is active in angiogenesis, lymphangiogenesis, and endothelial cell growth. FIGF protein is secreted as a non-covelent homodimer in an antiparallel fashion. Human FIGF protein is expressed in adult lung, heart, muscle, and small intestine, and is most abundantly expressed in fetal lungs and skin. FIGF protein is structurally and functionally similar to VEGF-C. Therefore, FIGF protein binds and activates VEGFR-2 (Flk1) and VEGFR-3 (Flt4) receptors, and may particularly be involved in cancers, such as breast cancer, epithelial ovarian carcinoma and so on.

References

1.Avantaggiato V, *et al.* (1998) Embryonic expression pattern of the murine figf gene, a growth factor belonging to platelet-derived growth factor/vascular endothelial growth factor family. Mech Dev. 73(2):221-4. 2.Rocchigiani M, *et al.* (1998) Human FIGF: cloning, gene structure, and mapping to chromosome Xp22.1 between the PIGA and the GRPR genes. Genomics 47(2):207-16. 3.Karpanen T, *et al.* (2008) VEGF-D: a modifier of embryonic lymphangiogenesis. Blood. 112(5): 1547-8.