

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

Catalog Number: 50157-M08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

FIGF, 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: Human 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 °C

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 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.

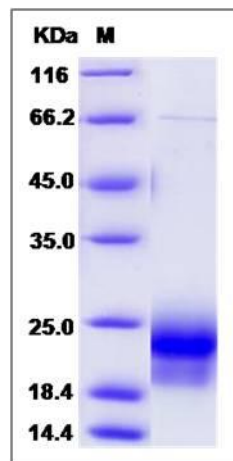
Usage Guide

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

Vascular endothelial growth factor D (VEGF-D), also known as C-fos induced growth factor (FIGF), is a vascular endothelial growth factor. This secreted protein is a member of the platelet derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family and performs activities in angiogenesis, lymphangiogenesis, and endothelial cell growth. Human VEGF-D is expressed in adult lung, heart, muscle, and small intestine, and is most abundantly expressed in fetal lungs and skin. It is structurally and functionally similar to VEGF-C, and is secreted as a non-covalent homodimer in an antiparallel fashion. VEGF-D undergoes a complex proteolytic maturation, generating multiple processed forms which bind and activate VEGFR-2 and VEGFR-3 receptors. Like VEGFC, it may particularly be involved in the formation of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults.

References

1. Achen MG. et al., 1998, Proc Natl Acad Sci. 95 (2): 548-53.
2. Stacker SA. et al., 1999, J Biol Chem. 274: 32127-36.
3. Baldwin ME. et al., 2001, J Biol Chem. 276: 19166-71.
4. McColl BK. et al., 2003, J Exp Med. 198: 863-8.
5. Roy H. et al., 2006, FEBS Lett. 580: 2879-87.
6. Otrrock ZH. et al., 2007, Blood Cells Mol Dis. 38: 258-68.

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