



Synonym

FIGF, VEGFD

Source

Mouse VEGF-D Protein, Fc Tag(VED-M5253) is expressed from human 293 cells (HEK293). It contains AA Phe 98 - Ser 206 (Accession # [P97946](#)).

Predicted N-terminus: Phe 98

Molecular Characterization

VEGF-D(Phe 98 - Ser 206) P97946	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 39.3 kDa. The protein migrates as 45-50 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

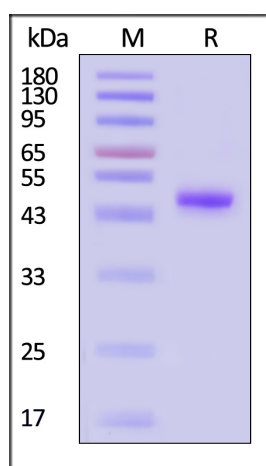
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Mouse VEGF-D Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

Discounts, Gifts,
and more!

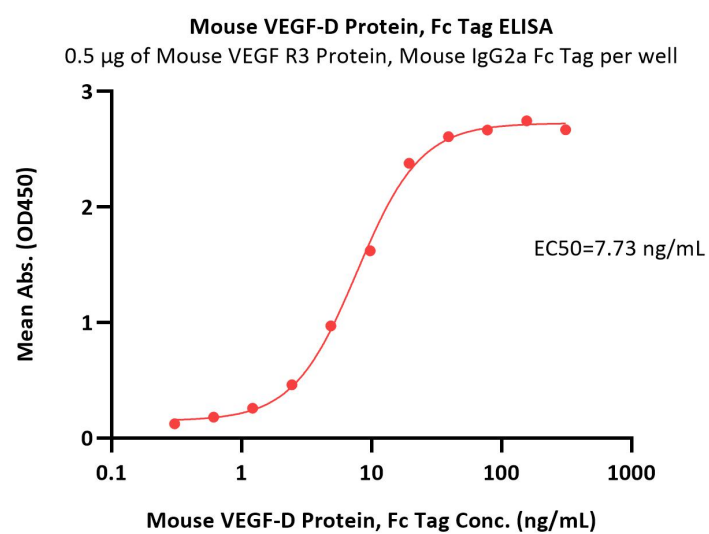


Mouse VEGF-D Protein, Fc Tag

Catalog # VED-M5253

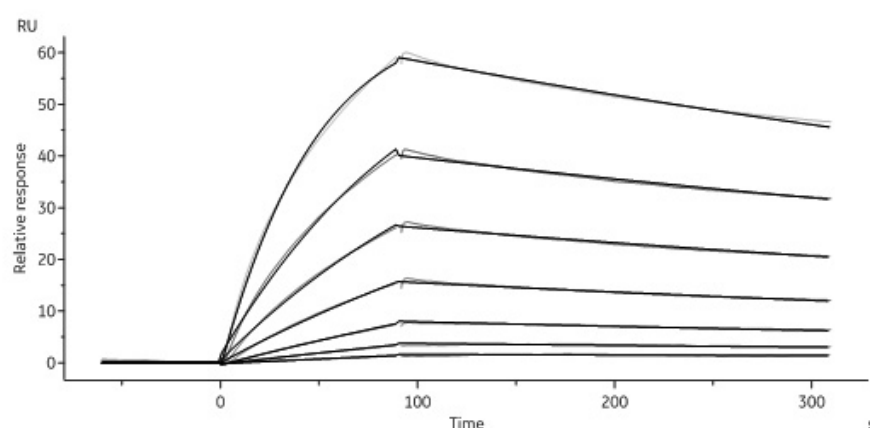


BIOSYSTEMS
Acro
Surprise Inside!



Immobilized Mouse VEGF R3 Protein, Mouse IgG2a Fc Tag (Cat. No. FL4-M5251) at 5 µg/mL (100 µL/well) can bind Mouse VEGF-D Protein, Fc Tag (Cat. No. VED-M5253) with a linear range of 0.3-20 ng/mL (QC tested).

Bioactivity-SPR



Mouse VEGF-D Protein, Fc Tag (Cat. No. VED-M5253) captured on CM5 chip via anti-Human IgG Fc antibody, can bind Mouse VEGF R3 Protein, Mouse IgG2a Fc Tag (Cat. No. FL4-M5251) with an affinity constant of 6.69 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

Vascular endothelial growth factor D (VEGF-D) is also known as C-fos induced growth factor (FIGF), which belongs to the PDGF / VEGF growth factor family and is active in angiogenesis, lymphangiogenesis, and endothelial cell growth, stimulating their proliferation and migration and also has effects on the permeability of blood vessels. This secreted protein VEGF-D / FIGF undergoes a complex proteolytic maturation, generating multiple processed forms that bind and activate VEGFR-2 and VEGFR-3. The structure and function of this protein is similar to those of VEGFC. FIGF / VEGF-D is highly expressed in lung, heart, small intestine and fetal lung. FIGF / VEGF-D may function in the formation of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults. Binds and activates VEGFR-2 (KDR / FLK1) and VEGFR-3 (FLT4) receptors.

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