



Synonym

Flt-4,FLT4,LMPH1A,PCLFLT41,VEGFR3,VEGFR-3,FLT-4,FLT-41,FLT41,PCL

Source

Mouse VEGF R3 Protein, Mouse IgG2a Fc Tag(FL4-M5251) is expressed from human 293 cells (HEK293). It contains AA Tyr 25 - Asp 770 (Accession # [P35917-1](#)).

Predicted N-terminus: Tyr 25

Molecular Characterization

VEGF R3(Tyr 25 - Asp 770) P35917-1	mFc(Glu 98 - Lys 330) P01863
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This protein carries a mouse IgG2a Fc tag at the C-terminus.

The protein has a calculated MW of 111.5 kDa. The protein migrates as 116-125 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5 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

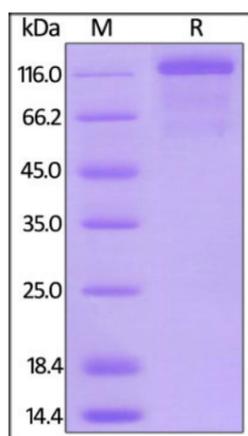
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

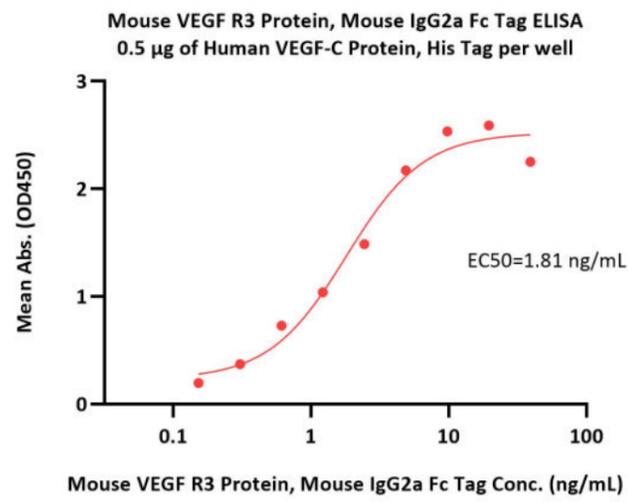


Mouse VEGF R3 Protein, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

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Immobilized Human VEGF-C Protein, His Tag (Cat. No. VEC-H52H3) at 5 µg/mL (100 µL/well) can bind Mouse VEGF R3 Protein, Mouse IgG2a Fc Tag (Cat. No. FL4-M5251) with a linear range of 0.31-5 ng/mL (QC tested).

Background

Vascular endothelial growth factor receptor 3 (VEGF R3), also known as FLT-4, together with the other two members VEGFR1 (FLT-1) and VEGFR2 (KDR/Flk-1) are receptors for vascular endothelial growth factors (VEGF) and belong to the class III subfamily of receptor tyrosine kinases (RTKs). VEGF R3 mediates lymphangiogenesis in response to VEGF-C and VEGF-D. VEGF R3 is widely expressed in the early embryo but becomes restricted to lymphatic endothelia at later stages of development. It is likely that VEGF R3 may be important for lymph angiogenesis.

Clinical and Translational Updates

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