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Vegfd
Recombinant Mouse VEGF-D (Fc Tag)

Catalog No.	CRM552A-Fc CRM552B-Fc	**Quantity:**	50 µg 100 µg

Alternate Names: Vascular endothelial growth factor D, VEGF-D, c-Fos-induced growth factor, FIGF

Description: Vascular endothelial growth factor D (VEGF-D) belongs to the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family. VEGF-D is active in angiogenesis, lymphangiogenesis, and endothelial cell growth. VEGF-D is secreted as a non-covelent homodimer in an antiparallel fashion. Human VEGF-D is expressed in adult lung, heart, muscle, and small intestine, and is most abundantly expressed in fetal lungs and skin. VEGF-D is structurally and functionally similar to VEGF-C. Therefore, VEGF-D 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.

UniProt ID: P97946

Protein Construction: A DNA sequence encoding the mature form of mouse FIGF (Phe 98-Ser 206) was fused with the Fc region of human IgG1 at the N-terminus.

Source: HEK293 Cells

Formulation: Lyophilized from sterile PBS, pH 7.4
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The rmFIGF/Fc is a disulfide-linked homodimer. The reduced monomer consists of 369 aa with a predicted MW of 40.6 kDa and migrates at 45 kDa and 36 kDa in SDS-PAGE, under reducing conditions.

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin Level: < 1.0 EU per µg of the protein as determined by the LAL method

Biological Activity: 1. In a functional ELISA, immobilized human VEGFR3-His at 10 µg/mL (100 µl/well) can bind mouse Fc-VEGFD, The EC50 of mouse Fc-VEGFD is 49 ng/mL.
2. Immobilized mouse VEGFR3-His at 10 µg/mL (100 µl/well) can bind mouse Fc-VEGFD, The EC50 of mouse Fc-VEGFD is 44 ng/mL.

Predicted N-terminal: Glu

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

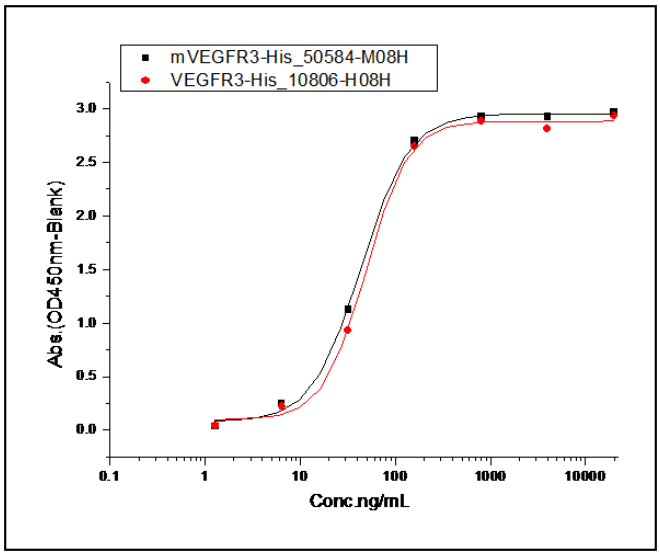
Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

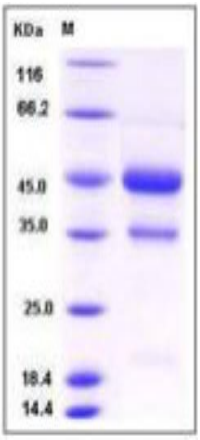
Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com

Measured by its binding ability in a functional ELISA, 1. Immobilized human VEGFR3-His at 10 µg/mL (100 µl/well) can bind mouse Fc-VEGFD, The EC50 of mouse Fc-VEGFD is 49 ng/mL. 2. Immobilized mouse VEGFR3-His at 10 µg/mL (100 µl/well) can bind mouse Fc-VEGFD, The EC50 of mouse Fc-VEGFD is 44 ng/mL.



SDS-PAGE



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