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Vegfa
Recombinant Mouse VEGF-165

Catalog No.	CRM434A	**Quantity:**	2 µg
	CRM434B		100 µg
	CRM434C		1 mg

Alternate Names: Vascular endothelial growth factor A, VEGF-A, VPF, glioma-derived endothelial cell mitogen

Description: Vascular endothelial growth factor A (VEGF-A) is produced by a wide variety of cell types, including tumor and vascular cells. VEGF-A is a mediator of vascular growth, vascular permeability, and plays a role in stimulating vasodilation via nitric oxide-dependent pathways. VEGF-A has several alternatively spliced isoforms, with VEGF -165 being the most abundant. The VEGF-165 isoform is a secreted protein that acts on receptors VEGFR-1 and VEGFR-2 to modulate endothelial cell proliferation and angiogenesis.

Gene ID: 22339

UniProt ID: Q00731-2

Source: *E. coli*

Molecular Weight: Dimer, 19.4/38.8 kDa (165/230 aa)

Formulation: Lyophilized from a sterile-filtered solution containing 0.1% Trifluoroacetic (TFA)

Purity: ≥95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤1 EU/µg by kinetic LAL analysis

Biological Activity: Activity is determined by the dose-dependent proliferation of human umbilical vein endothelial cells (HUVEC) and typical ED50 is < 5 ng/mL.

Specific Activity: ≥ 1.0×10^5 U/mg

Amino Acid Sequence: MAPTTEGEQK SHEVIKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP TSESNITMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPENHCEPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to reconstitute to a recommended concentration of 0.1 mg/mL and gently pipet solution up and down sides of vial. **DO NOT VORTEX**. Allow several minutes for reconstitution. A small amount of precipitate may be seen.

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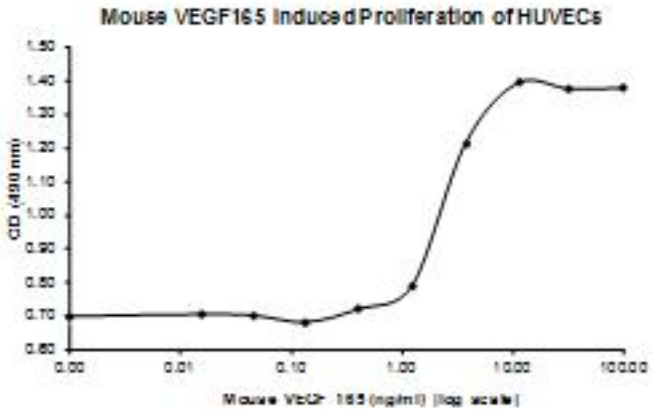
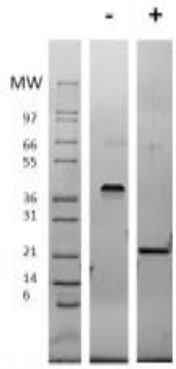
Storage & Stability: **Upon receipt**, store as supplied at -20°C to -80°C for up to 1 year. **Upon reconstitution**, the preparation is stable for up to one month at 2-8°C. **For long term storage**, reconstitute in working aliquots in 0.1% BSA solution and store at -80°C. **Avoid repeated freeze-thaw cycles.**





Mouse VEGF-165 Gel
Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse VEGF-165 is predicted to be a homodimer that has a predicted MW of 38.8 kDa (each monomer is 19.4 kDa).

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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