Vegfa
Recombinant Mouse Vascular Endothelial Growth Factor $(VEGF)_{120}$

Catalog No.	CSI20128A	**Quantity:**	2 µg
	CSI20128B		10 µg
	CSI20128C		1.0 mg

Alternate Names: Vpf, Vegf, Vegf120, Vegf164, Vegf188, Vegfa

Description: Vascular endothelial growth factor is a member of the PDGF/VEGF growth factor family. VEGF is a heparin-binding protein, which exists as a disulfide-linked homodimer. This growth factor induces proliferation and migration of vascular endothelial cells, and is essential for both physiological and pathological angiogenesis. It also affects a number of other cell types (e.g. stimulation of monocyte/ macrophage migration, neurons, cancer cells, kidney epithelial cells). Alternative splicing results in variants having 120, 164, or 188 amino acids. Receptor tyrosine kinases (RTKs) Flt-1 and Flk-1 have been shown to bind VEGF with high affinity.

Recombinant Mouse VEGF 120 is a non-glycosylated homodimer containing two chains with 121 amino acids each.

Gene ID: 22339

Protein Accession No: Q00731-3

Source: *E. coli*

Molecular Weight: 28.2 kDa (dimer)

Formulation: Lyophilized from a sterile-filtered solution with 0.1% Trifluoroacetic Acid (TFA).

Purity: >95% by SDS-PAGE

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

Biological Activity: Fully biologically active when compared to standard. The activity is determined by the dose-dependent proliferation of human umbilical vein endothelial cells (HUVEC) and is typically 1-5 ng/ml.

Specific Activity: ~1×10^6 U/mg

Amino Acid Sequence: MAPTTEGEQK SHEVIKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP TSESNITMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKCDKPR R

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/ml. **DO NOT VORTEX.** Allow several minutes for complete reconstitution. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store desiccated at -20°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, freeze in working aliquots and store at -20 to -80°C. For maximal stability, dilute

to working aliquots in a 0.1% BSA solution. **Avoid repeated freeze-thaw cycles.**

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