

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 × 10⁶ 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,

Toll Free: 888-769-1246

Phone: 978-572-1070

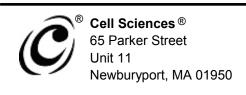
Fax: 978-992-0298

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

E-mail: info@cellsciences.com

Website: www.cellsciences.com





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

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

Toll Free: 888-769-1246 Phone: 978-572-1070 Fax: 978-992-0298 E-mail: info@cellsciences.com
Website: www.cellsciences.com