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Recombinant human VEGF 165 protein (Qk048)

Type: Stem cells

Available for purchase: Unit Size (µg): 25, 50, 100, 500, 1000

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Product Information

Recombinant human vascular endothelial growth factor 165 (VEGF $_{165}$/ VEGF-165/ VEGF165) protein is widely used in culturing primary endothelial cells, such as human umbilical vein endothelial cells (HUVEC).

VEGF 165 is commonly used with human-induced pluripotent stem cells or embryonic stem cells-derived endothelial cells for developing human vascular tissue models. It has many applications including its use in neural research involving oligodendrocyte precursor cells, Schwann cells, astrocytes, and microglia. It plays a role in bone formation, regulates mesenchymal stem cell differentiation, and serves as a survival factor for chondrocytes, hematopoietic stem cells, and tumor cells.

This protein is also available as GMP compliant Cell Therapy Grade, to enquire email ryan.weber@matriqx.com.

Alternative protein names

Vascular Endothelial Growth Factor, VPF, Folliculostellate cell-derived growth factor, Glioma-derived endothelial cell mitogen, MGC70609, MVCD-1, Vascular endothelial growth factor 2, Vascular endothelial growth factor A, Vascular permeability factor, VEGFA, VPF, MVCD1, VAS, VEGFMGC70609, VEGF, VEGFA, VEGF165, Qk48

Molecular weight

38.3 kDa (dimer), 19 kDa (monomer)

Protein Uniprot number

High purity human VEGF 165 (Uniprot: P15692)

Species reactivity

- human
- species similarity:
- mouse - 88%
- rat - 88%
- bovine - 94%
- porcine - 97%

Product Information

- >98%, by SDS-PAGE quantitative densitometry
- Expressed in *E. coli*
- Animal origin-free (AOF) and carrier protein-free
- Manufactured in our Cambridge, UK laboratories
- Lyophilized from acetonitrile, TFA

Reconstitution instructions

- Resuspend in sterile-filtered water at >50 µg/ml

Featured applications

- Angiogenic cell research
- Endothelial cell differentiation
- iPSC-derived mesoderm differentiation
- Vasculature in organoids
- Neural stem cell research
- Mesenchymal stem cell research

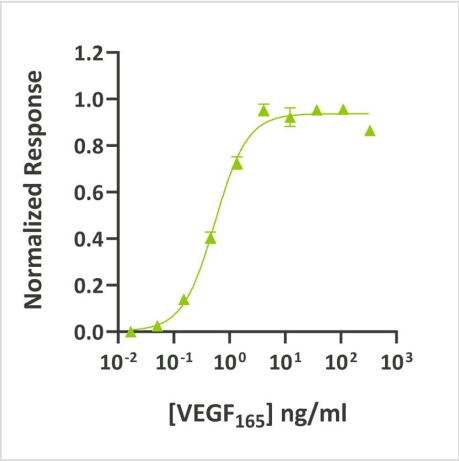
Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein

Scientific Information

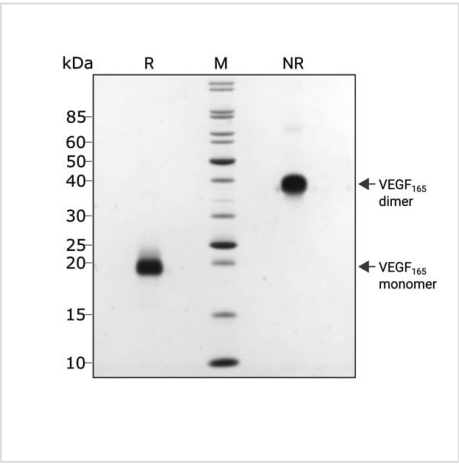
Bioactivity

The bioactivity of Qk048 was measured using a luciferase reporter cell line which stably expresses the KDR (VEGFR-2) receptor. Cells were incubated with different concentrations of VEGF 165 for 6 hours before assaying for luciferase production. EC50 = 0.55 ng/ml (14.4 pM) data from Qk048 lot #104393, n=3.



Purity

Human VEGF 165 (Qk048) migrates as a dimer at 38 kDa in non-reducing (NR) conditions and as a monomer at 19 kDa upon reduction (R). No contaminating bands are visible. Purified recombinant protein (3 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptoethanol, R) and non-reduced (-β-mercaptoethanol, NR) conditions and stained with Coomassie Brilliant Blue R-250. Data from Qk048 lot #104393.



Original product page: https://ryan.calliope-alpha.ts.net/product/recombinant-human-vegf-165-protein-qk048/

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