

For Research Use Only

Recombinant Human VEGF165



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Catalog Number:HZ-1038

HEK293 expressed

Endotoxin-free

Animal-component free

Technical Specifications

Species: human	Purity: >95%	Formulation: 1x PBS, See Certificate of Analysis for details
Expression: HEK293	Endotoxin: <1 EU/μg	Gene ID: 7422
Activity: 0.3-3.75 ng/mL EC50	Molecular Mass: 45 kDa, homodimer, glycosylated	

Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS containing 0.1% endotoxin-free recombinant serum albumin (HSA).

Stability and Storage

Lyophilized proteins are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at (4°C) for short term or at (-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

Product Description

Animal-free Recombinant Human VEGF 165 is expressed in human 293 cells as a homodimeric glycoprotein with an apparent molecular mass of 45 kDa. The E. coli expressed protein is a monomer-dimer mixture with a molecular mass 18 to 34 kDa. The cytokine is produced in a human cell expression system with serum free, chemically defined media. VEGF, also known as vascular permeability factor (VPF) or vasculotropin, is a homodimeric 34-45 kDa, heparin-binding glycoprotein with potent angiogenic, mitogenic, and vascular permeability enhancing activities specific for endothelial cells.

Synonyms

L VEGFA, MVCD1, Vascular permeability factor, VEGF, VEGF A, VEGF165, VEGFA, VPF

For technical support and original validation data for this product please contact:

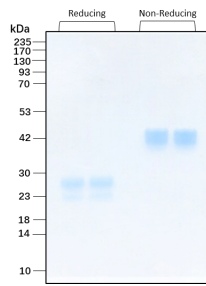
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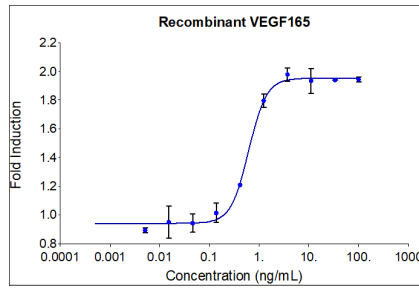
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Selected Validation Data



The protein was resolved by SDS- polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.



Recombinant human VEGF165 (HZ-1038) induces dose-dependent proliferation of the HUVEC (human umbilical vein endothelial) cell line. Cell number was quantitatively assessed by PrestoBlue® cell viability reagent. HUVEC cells were treated with increasing concentrations of recombinant VEGF165 for 96 hours. The EC₅₀ was determined using a 4-parameter non-linear regression model. Activity determination was conducted in triplicate on a validated bioassay. The EC₅₀ range is 0.3-3.75 ng/mL.