

Recombinant Human VEGF165

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.

Background

This gene is a member of the PDGF/VEGF growth factor family. It encodes a heparin-binding protein, which exists as a disulphide-linked homodimer (PMID 10838264; 11329058). This growth factor induces proliferation and migration of vascular endothelial cells and is essential for physiological and pathological angiogenesis. Misregulations of this gene in mice result in abnormal embryonic blood vessel formation.

Synonyms

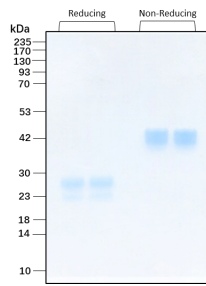
L VEGFA, MVCD1, Vascular permeability factor, VEGF, VEGF A, VEGF165, VEGFA, VPF

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

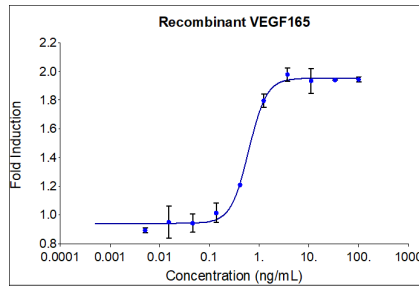
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Selected Validation Data



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