

VEGF165 Protein, Human, Recombinant (LlaFc)

General Information

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|-----------------------|---|
| Protein Construction: | Ala27-Arg191 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | P15692-4 |
| Molecular Weight: | 46.47 kDa (Predicted); 55-65 kDa (Reducing condition, due to glycosylation) |

QC Testing

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| Biological Activity: | Immobilized Human VEGF R1, His Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for Human VEGF165, Llama IgG2b Fc Tag with the EC50 of 69.9 ng/ml determined by ELISA (QC Test). |
| Purity: | > 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 0.1 EU/µg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Vascular endothelial growth factor (VEGF or VEGF-A), also known as vascular permeability factor (VPF), is a potent mediator of both angiogenesis and vasculogenesis in the fetus and adult. VEGF165 appears to be the most abundant and potent isoform, followed by VEGF121 and VEGF189.

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