

VEGF110 Protein, Human, Recombinant

General Information

Synonyms:	L-VEGF;VEGF;VEGF-A;MVCD1;VPF
Protein Construction:	Ala27-Arg136
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P15692-9
Molecular Weight:	12.7 kDa (predicted); 13 kDa and 17-23 kDa (due to glycosylation)

QC Testing

Biological Activity:	Measured by a reporter gene assay using HEK293T-KDR-NFAT Cell line. The ED50 for this effect is < 8 ng/mL (QC Test). Immobilized Human VEGF110, No Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Human VEGF R1, His Tag with the EC50 of 0.16 µg/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 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-A (VEGF-A) is a critical angiogenic factor which is mainly secreted from podocytes and epithelial cells in kidney and plays an important role in renal pathophysiology. In recent years,

functions of different isoforms of VEGF-A and the new secretion approach via extracellular vesicles (EVs) have been identified.

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