

Human VEGF (121 a.a.) Recombinant Protein



RPPB1068

Product Information Protein Information

Product SKU:

RPPB1068

Accession:

P15692

Host:

Escherichia Coli.

Protein description:

Vascular Endothelial Growth Factor-121 Human Recombinant produced in E.Coli is a non-glycosylated, polypeptide double chain containing 2x121 amino acids and having a molecular mass of 28.4kDa. VEGF121 circulates more freely than other VEGF forms, which bind more tightly with vascular heparin sulfates.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF, VEGF, MGC70609.

Formulation:

The protein was lyophilized from a concentrated (1mg/ml) solution with no additives.

Purity:

Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Vascular Endothelial Growth Factor -121 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized Vascular Endothelial Growth Factor 121 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution VEGF-121 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Amino Acid Sequence:

APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVPT
TEESNITMQI MRIKPHQGQH IGEMSFLQHN KCECRPKKDR ARQENCDKPR R

Biological Activity:

VEGF-121 has full biological activity when compared to standards. The activity is determined by the dose-dependent proliferation of HUVECs and is typically 1-6ng/ml corresponding to a specific activity of 166,667-1,000,000U/mg.