



Recombinant Human VEGF (121aa)

Cat No:HR2R2057

For research use only

Overview

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| Quantity | 10 ?g |
| Gene Symbol | VEGFA |
| Gene ID | 7422 |
| Accession | P15693 |
| Alternative Name | Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF, VEGF-121aa, Recombinant Human Vascular Endothelial Growth Factor 121AA (VEGFA) |
| Species | Human |
| Source | E. coli |
| Description | VEGF is a heavily glycosylated, homodimeric protein. The human factor occurs in several molecular variants of 121, 162, 145, 148, 165, 183, 189, 206 amino acids, arising by alternative splicing of the mRNA. The splice forms of VEGF differ in biological properties such as the receptor types, which they recognize and their interaction with heparan sulfate proteoglycans. VEGF121 and VEGF165 are soluble secreted forms of the factor. The interaction of VEGF with heparin-like molecules of the extracellular matrix is required for efficient receptor binding. Protamine sulfate and suramin are capable of replacing the receptor-bound factor. This recombinant construct represents the isoform 121 of VEGFA. |
| Functions | The ED50 as determined by the dose-dependent proliferation of human umbilical vein endothelial cells (HUVEC) was found to be 10 ng/mL |
| Formulation | Lyophilized from 0.2 ?m filtered solution in Tris and NaCl, pH 8.0 |
| Solubility | A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers. |
| Appearance | Lyophilized Powder |
| Molecular Weight | 14.3 |
| Purity | >95% as determined by SDS-PAGE |
| Concentration | <1.0 EU/?g of recombinant protein as determined by the LAL method |
| Shipping Condition | Ambient Temperature |
| Storage Condition | The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles. |