

**Product:** Vascular Endothelial Growth Factor-121, Human, Recombinant  
**Catalog #:** 11-VEGF-121H  
**Amount:** 5 µg

---

**DESCRIPTION:** Recombinant Human Vascular Endothelial Growth Factor-121 (rHuVEGF121)  
rHuVEGF121 is a single, non-glycosylated polypeptide chain containing 121 amino acids and having a molecular mass of 28723 Dalton  
VEGF<sub>121</sub> circulates more freely than other VEGF forms, which bind more tightly with vascular heparin sulfates  
The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Pro-Met-Ala-Glu.

**SOURCE:** *E.Coli* Expression System

**PURITY:** Greater than 98.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Anion-exchange FPLC.  
(c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.

**ENDOTOXIN:** Less than 0.1 ng/µg (IEU/µg) of rHuVEGF-121

**DIMERS & AGREGATES:** Less than 1% as determined by silver-stained SDS-PAGE gel analysis

**FORM:** Purified

**PROTEIN CONTENT:** Protein quantitation was carried out by two independent methods:  
1. UV spectroscopy at 280  
2. Analysis by RP-HPLC, using a calibrated solution of human VEGF-121 as a Reference Standard.

**STORAGE:** -20°C (aliquot), avoid repeated freeze and thaw cycles.

**BIOLOGICAL ACTIVITY:** rHuVEGF-121 is fully biologically active when compared to standards  
Determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVEC) using a concentration range of 0.2-0.4 ng/ml

This product is sold for laboratory research use or further manufacturing only and should not be used for human therapeutic or diagnostic applications. The information presented is believed to be accurate; however, said information and products are offered without warranty or guarantee since the ultimate conditions of use and the variability of the materials treated are beyond our control. Nothing disclosed herein is to be construed as a recommendation to use our products in violation of any patents. Under no circumstances shall ARP American Research Products, Inc. be liable for damages, whether consequential, compensatory, incidental or special, strict liability or negligence, breach of warranty or any other theory arising out of the use of the products available from ARP American Research Products, Inc. Nothing contained herein warrants that the use of the products will not infringe on the claims of any patents covering the product itself or the use thereof in combination with other products or in the operation of any process.