

## Vascular Endothelial Growth Factor Human Recombinant, HEK

<b>Item Number</b>	rAP-2491
<b>Synonyms</b>	Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF, VEGF, MGC70609.
<b>Description</b>	Vascular Endothelial Growth Factor Human Recombinant produced in HEK293 cells is a double, glycosylated, polypeptide chain containing 165 amino acids (27-191) and having a molecular mass of 40 kDa. The VEGF is purified by proprietary chromatographic techniques.
<b>Uniprot Accession Number</b>	P15692
<b>Amino Acid Sequence</b>	APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI MRIKPHQGGH IGEMSFLQHN KCECRPKKDR ARQENPCGPG SERRKHLFVQ DPQTCKCCK NTDSRCKARQ LELNERTCRC DKPRR.
<b>Source</b>	HEK293 (Human Embryonic Kidney cell line).
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Vascular Endothelial Growth Factor HEK although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution VEGF HEK 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).
<b>Formulation and Purity</b>	The protein was lyophilized from a 0.2µM filtered solution of 20mM PB, 150mM NaCl, pH 7.2. Greater than 95.0% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized Vascular Endothelial Growth Factor-HEK in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	Determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVEC) using a concentration range of 4.0ng/ml, corresponding to a specific activity of 2.5 x 10 <sup>5</sup> Units/mg.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**