

Vascular Endothelial Growth Factor Human Recombinant, HEK

Item Number	rAP-2491
Synonyms	Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF, VEGF, MGC70609.
Description	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.
Uniprot Accesion Number	P15692
Amino Acid Sequence	APMAEGGGQN HHEVVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECPV TEESNITMQI MRIKPHQQH IGEMSFLQHN KCECRPKKDR ARQENPCGPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR.
Source	HEK293 (Human Embryonic Kidney cell line).
Physical Appearance and Stability	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).
Formulation and Purity	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.
Application	
Solubility	It is recommended to reconstitute the lyophilized Vascular Endothelial Growth Factor-HEK in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	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 105 Units/mg.
Shipping Format and Condition	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 end users! This product is sold for **Research Use Only**