

## Vascular Endothelial Growth Factor (121 a.a.) Human Recombinant, Sf9

<b>Item Number</b>	rAP-2490
<b>Synonyms</b>	Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF, VEGF, MGC70609.
<b>Description</b>	Vascular Endothelial Growth Factor-121 Human Recombinant produced in insect cells as an 18kDa homodimer, is a glycosylated, polypeptide chain containing 121 amino acids and having a molecular mass of approximately 36kDa. VEGF121 circulates more freely than other VEGF forms, which bind more tightly with
<b>Uniprot Accesion Number</b>	P15692
<b>Amino Acid Sequence</b>	APMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKPS CVPLMRCGGCCNDEGLECVPTESNITMQIMRIKPHQQHIGEMSFLQHN KCECRPKKDRARQEKCDKPRR.
<b>Source</b>	Sf9, Insect Cells.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. 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-
<b>Formulation and Purity</b>	The protein was lyophilized from a solution containing 50mM acetic acid. Greater than 95.0% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	The lyophilized VEGF121 should be reconstituted in 50mM acetic acid to a concentration not lower than 50µg/ml.
<b>Biological Activity</b>	Measured in a cell proliferation assay using primary HUVECs. The ED50 for this effect is typically 2-10ng/ml.
<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 end users! This product is sold for **Research Use Only**