

VEGF165 Protein, Human/Cynomolgus, Recombinant V2

General Information

Synonyms:	VEGFA;VPF;Vascular permeability factor;VEGF;L-VEGF
Protein Construction:	Ala27-Arg191
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P15692-4
Molecular Weight:	19.2 kDa (Predicted); 20-30 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human VEGF165 at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human VEGFR2, mFc Tag with the EC50 of 42.3 ng/ml determined by ELISA. Human VEGF165 stimulates proliferation of human umbilical vein endothelial cells (HUVEC) with the ED50 for this effect is 2.57 ng/mL (QC Test).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Human papillomavirus (HPV) infection is an established risk factor for cervical carcinogenesis. VEGF165 was significantly higher, whereas VEGFC and VEGFD were significantly lower in malignant cervical carcinoma tissues as compared to normal cervix tissues. Expression levels of VEGF121 and VEGFC were significantly associated with type of tumor growth while VEGF165 was significantly associated with lymph node metastasis.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481