# VEGF165 Protein, zebrafish (sf9)

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| **Cat. No.:** | HY-P74476 |
| **Synonyms:** | VEGF-AA; Vascular endothelial growth factor A-A; vegf; vegfa |
| **Species:** | Others |
| **Source:** | Sf9 insect cells |
| **Accession:** | O73682 (M1-R188) |
| **Gene ID:** | 30682 |
| **Molecular Weight:** | Approximately 22 kDa |

## PROPERTIES

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| **Appearance** | Lyophilized powder. |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in $ddH_2O$. |
| **Storage & Stability** | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| **Shipping** | Room temperature in continental US; may vary elsewhere. |

## DESCRIPTION

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| **Background** | The VEGF165 Protein, a crucial growth factor, actively participates in angiogenesis, vasculogenesis, and endothelial cell growth. Its diverse effects include inducing endothelial cell proliferation, promoting cell migration, inhibiting apoptosis, and inducing the permeabilization of blood vessels. VEGF165 acts both upstream of kdr and tie1 to stimulate endothelial cell differentiation and upstream of gata1 to stimulate hematopoietic cell differentiation. Structurally, it exists as a homodimer linked by disulfide bonds. The isoform VEGF165 specifically binds to kdr and kdrl, highlighting its central role in orchestrating multiple cellular processes critical for vascular development and maintenance. |



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