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## Rat VEGF

**Catalog #:** 91008

**Lot #:** 141208

**Description:** Recombinant rat vascular endothelial growth factor (VEGF) expressed in *E. coli* cells. Rat recombinant VEGF contains 165 amino acids and has a molecular weight of 38.7 kDa. VEGF is an important growth factor involved in both vasculogenesis and angiogenesis.

**Source:** Optimized DNA sequence encoding rat VEGF was expressed in *E. coli*.

**Formulation:** Recombinant rat VEGF lyophilized from 10 mM Na Phosphate, pH 7.5.

**Reconstitution:** Briefly centrifuge the vial, followed by reconstitution in sterile water to a concentration of  $\geq 0.1$  mg/ml. This solution can then be further diluted into other aqueous buffers containing carrier protein (0.1% BSA).

**Storage:** The lyophilized protein is stable at room temperature for 3 weeks and for at least 2 years from date of receipt when stored at  $-20^{\circ}\text{C}$ . Upon reconstitution, store in working aliquots at  $2 - 8^{\circ}\text{C}$  for up to one week, or at  $-20^{\circ}\text{C}$  for up to six months, in the presence of a carrier protein. Avoid repeated freeze/thaw cycles.

**Purity:**  $>97\%$ , as determined by SDS-PAGE and HPLC.

**Biologic Activity:** Determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVEC) using a concentration range of 4.0 – 8.0 ng/ml.

### Protein Sequence:

MAPTTEGEQKAHEVVKFMDVYQRSY  
CRPIETLVDIFQEYYPDEIEYIFKPSCVPL  
MRCAGCCNDEALECVPTSESNVTMQI  
MRIKPHQSQHIGEMSFLQHSRCECRP  
KKDRTKPEKHCEPCSEERRKHLFVQDP  
QTCKCCKNTDSRCKARQLELNERTC  
RCDKPRR

### References:

1. Caires, K.C., *et al. Reproduction*. 2009; **138**: 667-677.
2. Linderholm, B.K., *et al. Ann. Onc.* 2009; **20**: 1639-1646.

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