

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant VEGF165, Rat (CHO-expressed)

Catalog Number: BK0293-1mg

Source: CHO

Quantity: 1mg

Description:

Vascular Endothelial Growth Factor (VEGF) is a potent growth and angiogenic cytokine. It stimulates proliferation and survival of endothelial cells, and promotes angiogenesis and vascular permeability. Expressed in vascularized tissues, Vascular Endothelial Growth Factor (VEGF) plays a prominent role in normal and pathological angiogenesis. Substantial evidence implicates Vascular Endothelial Growth Factor (VEGF) in the induction of tumor metastasis and intra-ocular neovascular syndromes. Vascular Endothelial Growth Factor (VEGF) signals through the three receptors; fms-like tyrosine kinase (flt-1), KDR gene product (the murine homolog of KDR is the flk-1 gene product) and the flt4 gene product.

Molecular Weight:

35-48 kDa, observed by non-reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

ED50 < 4 ng/ml, measured in a cell proliferation assay using HUVEC cells, corresponding to a specific activity of >2.5 x 10⁵ units/mg

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

APTTEGEQKA-
HEVVKFMDEVYQRSYCRPIETLVDIFQEYYPDEIEYI
FKP-
SCVPLMRCAGCCNDEALECVPTSESNVTMQMIM-
RIKPHQSQHIGEMSFLQHSRCECRPKKDRTK-
PENHCEPCSERRKHLFVQDPQTCKCCKNTDSR
CKARQLELNERTCRCDKPRR

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μg/ml.

Storage:

Lyophilized recombinant Rat Vascular Endothelial Growth Factor 165 (VEGF165) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rrVEGF165 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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