

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant VEGF165, Human(HEK 293-expressed)

Catalog Number: BK0335-1mg

Source: HEK 293

Quantity: 1mg

Description:

Vascular Endothelial Growth Factor 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, VEGF plays a prominent role in normal and pathological angiogenesis. Substantial evidence implicates VEGF in the induction of tumor metastasis and intra-ocular neovascular syndromes. VEGF signals through the three receptors; fms-like tyrosine kinase (flt-1), KDR gene product (the mouse homolog of KDR is the flk-1 gene product) and the flt4 gene product.

Molecular Weight:

20~26 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

ED50 <16 ng/ml, measured in a cell proliferation assay using HUVEC cells.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

APMAEGGGQNH-
HEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYI
FKP-
SCVPLMRCGGCCNDEGLECVPTESNITMQIM-
RIKPHQGQHIGEMSFLQHNKCECRPKKDRARQE
NPCGPCSERRKHLFVQDPQTCKCCKNTDSRCK
ARQLELNERTCRCDKPRR

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μg/ml.

Storage:

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

Usage:

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