

Product Information

HumanKine™ Vascular Endothelial Growth Factor 165, human recombinant, expressed in HEK 293 cells

Catalog Number **H9166**
Storage Temperature -20°C

Synonym: VEGF165

Product Description

HumanKine™ VEGF165 is expressed in human 293 cells as a glycosylated homodimer with an apparent molecular mass of 45 kDa. Production in human 293 cells offers authentic glycosylation. Glycosylation contributes to stability in cell growth media and other applications.

VEGF165 belongs to the PDGF/VEGF growth factor family. Many cell types secrete VEGF, and it is a potent angiogenic factor and mitogen that stimulates proliferation, migration, and formation of endothelial cells. VEGF stimulates permeabilization of blood vessels and is present in some tumors of the nervous system. VEGF is induced by hypoxia, oncogene mutations, and cytokines such as IL-1, IL-8, TNF- α .

This product is lyophilized from a PBS solution.

ED₅₀: ≤ 20 ng/mL

The specific activity was determined by the dose-dependent stimulation of the proliferation of HUVEC cells (Human Umbilical Vein Endothelial Cells).

Purity: $\geq 95\%$ (SDS-PAGE)

Endotoxin level: ≤ 1 EU/ μg

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Storage/Stability

Store the product at -20°C . The lyophilized product remains active for one year at -20°C .

Upon reconstitution, the cytokine can be stored at $2-8^{\circ}\text{C}$ for short term only, or at -20°C to -80°C in aliquots for long term. Avoid repeated freeze-thaw cycles.

References

1. Conn, G., et al., PNAS, **87**, 1323-1327 (1990).
2. Angelo, L.S., et al., Clin. Cancer Res., **13**, 2825-2830 (2007).

HumanKine is a trademark of HumanZyme Inc.

GS,JF,MAM 12/10-1

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.