NEUROMICS

Datasheet

Recombinant Human VEGF 162

Catalog Number: PR15030 **Product Type:** Recombinant protein

Source: A DNA sequence encoding the 162 amino acid residue variant of human VEGF (Lange, T. *et al*., 2003, J. Biol. Chem. **278**:17164) was joined with the CD33 signal peptide (Met 1- Ala 16) at the N-terminus. The recombinant protein was expressed in a mouse myeloma cell line, NS0.

Molecular Mass: The mature recombinant human VEGF-162 is a disulfide-linked homodimer. Based on N-terminal amino acid sequencing, the mature recombinant protein starts at Ala 27. It consists of 162 amino acid residues and has a calculated molecular mass of 18.8 kDa. As a result of glycosylation and proteolytic processing, the recombinant protein preparation contains a mixture of peptides that migrate with apparent molecular masses of 20 and 15 kDa in SDS-PAGE under reducing conditions, respectively.

Purity: > 95%, as determined by SDS-PAGE and visualized by silver stain.

Endotoxin Levels: < 1.0 EU per 1 μg of the cytokine as determined by the LAL method.

Activity: The biological activity of recombinant human VEGF-162 was measured by its ability to stimulate ^{3}H-thymidine incorporation in human umbilical vein endothelial cells.

The ED_{50} for this effect is typically 1.0 - 5.0 ng/mL.

Format: Lyophilized from a 0.2 μm filtered solution in PBS containing 50 μg of bovine serum albumin per 1 μg of cytokine.

Reconstitution: It is recommended that sterile PBS containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 10 μg/mL.

Storage: Lyophilized samples are stable for up to six months at -20° C to -70° C.

Upon reconstitution, this cytokine, in the presence of a carrier protein, can be stored under sterile conditions at 2 - 8° C for one month or at -20° C to -70° C **in a manual defrost freezer** for three months without detectable loss of activity.

Avoid repeated freeze-thaw cycles.