



Recombinant Protein Technical Manual
Recombinant Human VEGF-B/VEGFB Protein (Fc Tag)
RPES3768

Product Data:

Product SKU: RPES3768

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P49765

Protein Information:

Molecular Mass: 45.7 kDa

AP Molecular Mass: 40&60 kDa

Tag: N-Fc

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS,pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Vascular endothelial growth factor B;VEGF-B;VEGF-related factor;VRF

Immunogen Information:

Sequence: Pro22-Ala207

Background:

VEGFB, as known as VRF, is a member of the VEGF family of growth factors that share structural and functional similarity. By alternative splicing, two isoforms of mature VEGF-B containing 167 or 186 amino acid (aa) residues exist. VEGF-B is expressed in most tissues, especially in heart, skeletal muscle and pancreas. The two VEGF-B isoforms have identical amino-terminal cysteine-knot VEGF homology domains but the carboxyl end of VEGF-B167 differs from that of VEGF-B186 by the presence of a highly basic cysteine-rich heparin binding domain. VEGF-B167 and a proteolytically processed form of VEGF-B186 also bind neuropilin, a type I transmembrane receptor for semaphorins/collapsins, ligands involved in neuron guidance.