

VEGFB (N-Fc), Human, Recombinant

Cat. No. : PCK223

General Information

Synonyms	Vascular Endothelial Growth Factor B; VEGF-B; VEGF-related Factor; VRF
Species	Human
Expression host	Human Cells
Sequence	Pro22-Ala207
Accession	P49765
Mol mass	45.7 kDa
Expiration date	12 months

Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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-1, a type I transmembrane Receptor for semaphorins/collapsins, Ligands involved in neuron guidance.

SDS-PAGE