



Recombinant Human Vascular Endothelial Growth Factor B (rhVEGF-B)

Catalog #105-21

Product Description

Vascular endothelial growth factor B (VEGF-B) is a member of the VEGF growth factor family, characterized by a conserved eight-cysteine residue pattern and shared receptors. This protein plays critical roles in cellular processes including endothelial cell stimulation, angiogenesis, cell migration, and vascular permeability. VEGFB specifically binds to the VEGFR1 receptor and is most abundantly expressed in heart, skeletal muscle, and pancreas tissues. Genetically, VEGFB is mapped to chromosome 11q13, highlighting its distinct molecular characteristics within the broader VEGF growth factor family. Recombinant Human VEGF-B consists of two identical 167-amino acid polypeptide chains connected by disulfide bonds and glycosylated.

Specifications

Synonyms:	VEGF-B, VRF
AA Sequence:	PVSQPDAPGH QRKVVSVIDV YTRATCQPRE VVVPLTVELM GTVAKQLVPS CTVVQRCGGC CPDDGLECVP TGQHQVRMQI LMIRYPSSQL GEMSLEEHSQ CECRPKKKDS AVKPDSRPL CPRCTQHHQR PDPRTCRCRC RRRSFLRCQG RGLELNPDTG RCRKLRR
Source:	<i>Pichia pastoris</i>
Purity	> 95%
Physical Appearance:	White lyophilized powder.
Endotoxin:	<0.1 ng/μg of protein (<1 EU/μg)

Formulation

Lyophilized from a 0.2μm filtered concentrated (1mg/ml) solution in 1x PBS with dextran as protectant.

Reconstitution

Reconstitute in sterile distilled water or 1x PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.

Shipping and Storage

Gel pack. Upon receipt, store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.

Rev. 0

Usage

rhVEGF-B is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.