

VEGFB Human

Description: VEGFB Human Recombinant produced in E.Coli is a double, non-glycosylated, polypeptide chain containing 207 amino acids (22-207) and having a molecular mass of 21.6 kDa. The VEGFB is fused to a 20 amino acid His Tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: CYP5-635

For research use only.

Synonyms: Vascular endothelial growth factor B, VEGF-B, VRF, VEGFL, VEGF-related factor, VEGFB.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless liquid formulation.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MPVSQPDAPG HQRKVVSWID
VYTRATCQPR EVVPLTVEL MGTVAKQLVP SCVTVQRCGG CCPDDGLECV PTGQHQVRMQ
ILMIRYPSSQ LGEMSLEEHS QCECRPKKGD SAVKPDRAAT PHHRPQPRSV PGWDSAPGAP
SPADITHPTP APGPSAHAAP STTSALTPGP AAAAADAAS SVAKGGA.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The VEGFB protein solution contains 20mM Tris-HCl buffer pH 7.5 & 10% glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

VEGFB is a growth factor for endothelial cells. VEGFB 167 a.a. binds heparin and neuropilin-1 while the binding to neuropilin-1 of VEGFB 186 a.a. is regulated by proteolysis. Overexpression of VEGFB in mouse heart alters cardiac lipid metabolism and induces myocardial hypertrophy. Increased VEGFB expression is associated with hepatocellular carcinoma. VEGF-B has restricted angiogenic activity in the ischemic heart. VEGFB binds to VEGFR1, Flt1, but not to VEGFR2 and VEGFR3. VEGFB is homodimeric, heparin-binding glycoprotein involved in embryonic angiogenesis and vasculogenesis.

Biological Activity:

Measured in a cell proliferation assay using NIH-3T3 mouse embryonic fibroblast. The ED50 for this effect is 1 ng/ml corresponding to a specific activity of less than 1,000,000 units/mg.

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