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32-1840: VEGFB Recombinant Protein(Discontinued)

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

Description

Source : Escherichia Coli. 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 (molecular weight on SDS-PAGE will appear higher).The VEGFB is fused to a 20 amino acid His Tag at N-terminus & purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	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 (molecular weight on SDS-PAGE will appear higher). The VEGFB is fused to a 20 amino acid His Tag at N-terminus & purified by proprietary chromatographic techniques.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MPVSQPDAPG HQRKVVSWID VYTRATCQPR EVVVPLTVEL MGTVAKQLVP SCVTVQRCGG CCPDDGLECV PTGQHQVRMQ ILMIRYPSSQ LGEMSLEEHS QCECRPKKKD SAVKPDRAAT PHHRPQPRSV PGWDSAPGAP SPADITHPTP APGPSAHAAP STTSALTPGP AAAAADAAAS SVAKGGA.

Application Note

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