

32-12337: Mouse Vascular Endothelial Growth Factor-165

Gene : Vegfa
Gene ID : 22339
Uniprot ID : Q00731-2
Alternative Name : Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF

Description

Source: Genetically modified E.coli.

Predicted MW: Dimer, 19.4/38.8 kDa (165/230 aa)

Vascular endothelial growth factor A (VEGF-A) is produced by a wide variety of cell types, including tumor and vascular cells. VEGF-A is a mediator of vascular growth, vascular permeability, and plays a role in stimulating vasodilation via nitric oxide-dependent pathways. VEGF-A has several alternatively spliced isoforms, with VEGF-165 being the most abundant. The VEGF-165 isoform is a secreted protein that acts on receptors VEGFR-1 and VEGFR-2 to modulate endothelial cell proliferation and angiogenesis.

Product Info

Amount : 10 µg / 100 µg
Purification : Reducing and Non-Reducing SDS PAGE at >= 95%
 Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
Content : Sterile water at 0.1 mg/mL
Storage condition : Store at -20°C
Amino Acid : MAPTTEGEQK SHEVIKMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP TSESNITMQI MRIKPHQSQH IGEMSFQHS RCECRPKKDR TKPENHCEPC SERRKHLFVQ DPQTKCKSCK NTDSRCKARQ LELNERTCRC DKPRR

Application Note

Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

Biological Activity was determined by HUVEC Proliferation at <=10 ng/mL; >= 1.0 x 10⁵ units/mg (typical ED50 is < 5 ng/mL). Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



