

Active Recombinant Mouse Vegfa Protein, His & Avi-tagged, Biotinylated

Cat. No. Vegfa-729M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Mouse Vegfa Protein (Ala 27 - Arg 190) (Q00731-2), fused with a polyhistidine tag at the N-terminus, followed by an Avi tag, was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	Ala 27 - Arg 190
Predicted N Terminal	Ala 27
Form	Lyophilized from sterile PBS, pH7.4, 10% trehalose.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized VEGFR2/R3, Fc tag at 2µg/mL (100 µL/well) can bind Biotinylated Mouse VEGF164, His Tag with a linear range of 0.019-0.51 ng/mL.
Molecular Mass	Recombinant Mouse Vegfa Protein has a calculated MW of 22.5 kDa. As a result of different glycosylation, The protein migrates as 28-33 kDa under reducing (R) condition and 46-60 kDa under non-reducing (NR) condition on SDS-PAGE gel.
Endotoxin	Less than 1.0 EU per µg by the LAL method.

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Purity	>95% as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

Gene Name	Vegfa vascular endothelial growth factor A [Mus musculus]
Official Symbol	Vegfa
Synonyms	VEGFA; vascular endothelial growth factor A; vascular permeability factor; Vpf; Vegf; Vegf120; Vegf164; Vegf188;
Gene ID	22339
mRNA Refseq	NM_001025250
Protein Refseq	NP_001020421
Pathway	Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem; Focal Adhesion, organism-specific biosystem; Focal

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adhesion, organism-specific biosystem;

Function

cell surface binding; chemoattractant activity; cytokine activity; fibronectin binding; growth factor activity; heparin binding; platelet-derived growth factor receptor binding; protein heterodimerization activity; protein homodimerization activity; receptor agonist activity; vascular endothelial growth factor receptor 1 binding; vascular endothelial growth factor receptor 2 binding; vascular endothelial growth factor receptor binding;

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