

Recombinant Mouse vascular endothelial growth factor A Protein, Tag Free

Cat. No. Vegfa-164M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse VEGF188 protein (Q00731-1) (Ala 27-Arg 214) without tag was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	27-214aa
Description	Participates in the induction of key genes involved in the response to hypoxia and in the induction of angiogenesis such as HIF1A. Involved in protecting cells from hypoxia-mediated cell death. Growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. Binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. Binds to the NRP1/neuropilin-1 receptor. Binding to NRP1 receptor initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development.
Tag	Non
Molecular Mass	22.5 kDa

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Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

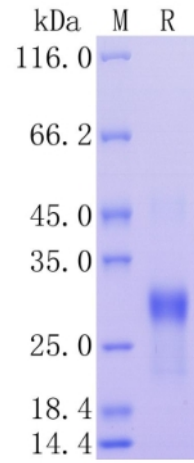
Gene Name	Vegfa vascular endothelial growth factor A [<i>Mus musculus</i> (house mouse)]
Official Symbol	Vegfa
Synonyms	VEGFA; vascular endothelial growth factor A; vascular permeability factor; Vpf; Vegf; Vegf120; Vegf164; Vegf188;
Gene ID	22339
mRNA Refseq	NM_001025250
Protein Refseq	NP_001020421
UniProt ID	Q00731

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**Protein on SDS-
PAGE under
reducing (R)
condition.**



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