

Recombinant Mouse VEGFA protein (HPLC-verified)

Cat. No. VEGFA-381M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse VEGFA protein (Ala27-Arg190)(HPLC-verified) carries no tag and was expressed in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	164
Description	Vascular endothelial growth factor A (VEGFA) is also known as Vascular permeability factor (VPF). VEGFA belongs to the PDGF/VEGF growth factor family. VEGFA is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. VEGFA is produced by a group of three major isoforms as a result of alternative splicing and if any three isoforms are produced (VEGFA120, VEGFA164, and VEGFA188) then this will not result in vessel defects and death of the full VEGFA knockout in mice.
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 19.3 kDa. The protein migrates as 23-25 kDa under reducing (R) condition (SDS-PAGE) due to different glycosylation.

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Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
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.

GENE INFORMATION

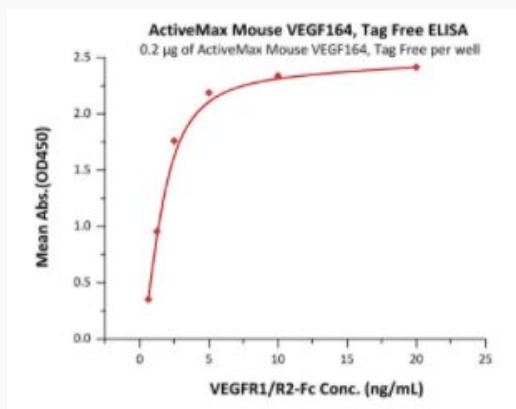
Gene Name	VEGFA
Official Symbol	VEGFA
Synonyms	VEGFA; vascular endothelial growth factor A; vascular permeability factor; Vpf; Vegf; Vegf120; Vegf164; Vegf188
Gene ID	22339
mRNA Refseq	NM_001025250
Protein Refseq	NP_001020421
UniProt ID	Q00731

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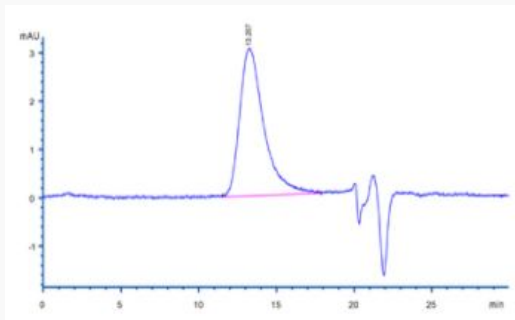
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Bioactivity-ELISA of VEGFA-381M



Immobilized Mouse VEGF164, Tag Free (HPLC-verified) at 2 µg/mL (100 µL/well) can bind VEGFR1/R2-Fc with a linear range of 0.6-2.5 ng/mL (QC tested).

SEC-HPLC of VEGFA-381M



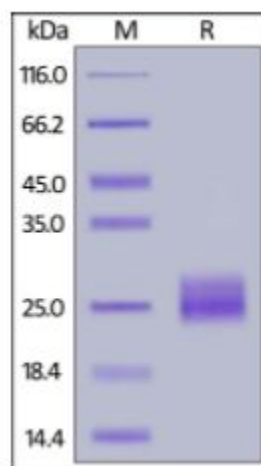
The purity of Mouse VEGF164, Tag Free (HPLC-verified) was greater than 95% as determined by SEC-HPLC.

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**SDS-PAGE of
VEGFA-381M**



Mouse VEGF164, Tag Free (HPLC-verified) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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