

重组小鼠血管内皮细胞生长因子(VEGF)

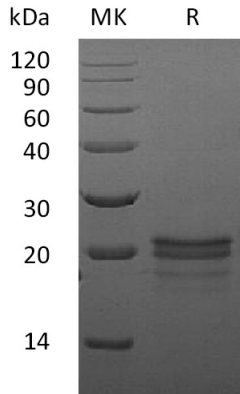
Vascular Endothelial Growth Factor 164 (VEGF), Mouse, Recombinant

Cat. No.: MA0616 Size: 10 μ g

Source:	P.Pichia
Description:	Recombinant Mouse Vascular Endothelial Growth Factor A is produced by our Yeast expression system and the target gene encoding Ala27-Arg190 is expressed.
Accession:	Q00731-2
Known As:	Vascular endothelial growth factor A; VEGF-A; Vascular permeability factor; VPF; VEGFA; VEGFA164; VEGF164
Predicted Mol Mass:	19.27 KDa
Apparent Mol Mass:	18-22 KDa, reducing conditions
Endotoxin:	< 1 EU/ μ g as determined by LAL test.
Formulation:	Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 250mM NaCl, pH7.0.
Reconstitution:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μ g/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage:	Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8 $^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.
Background:	Mouse Vascular endothelial growth factor (VEGF or VEGFA), is a potent mediator of both angiogenesis and vasculogenesis in the fetus and adult. It is a member of the PDGF/VEGF growth factor family that is characterized by a cystine knot structure formed by eight conserved cysteine residues. Alternately spliced isoforms of 120, 164 and 188 aa found in mouse. VEGF binds the type I transmembrane receptor tyrosine kinases VEGF R1 (also called Flt1) and VEGF R2 (Flk/KDR) on endothelial cells. Although affinity is highest for binding to VEGF R1, VEGF R2 appears to be the primary mediator of VEGF angiogenic activity. VEGF is required during embryogenesis to regulate the proliferation, migration, and survival of endothelial cells. It may play a role in increasing vascular permeability during lactation, when increased transport of molecules from the blood is required for efficient milk protein synthesis.

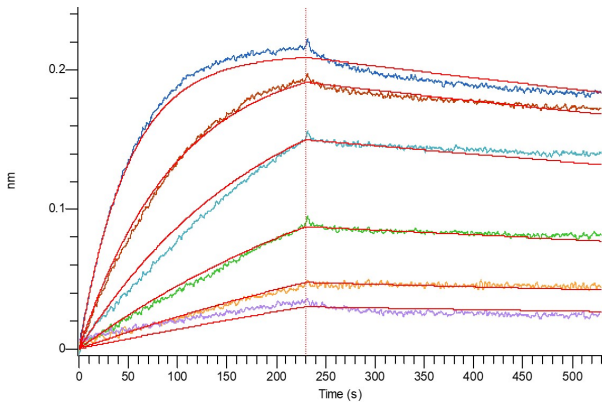


Purity-SDS-PAGE:

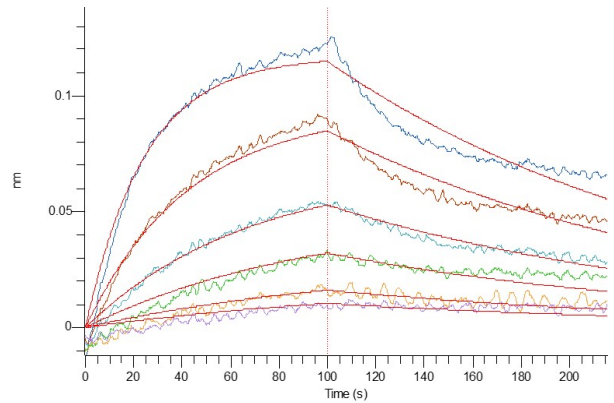


Greater than 90% as determined by reducing SDS-PAGE. (QC verified)

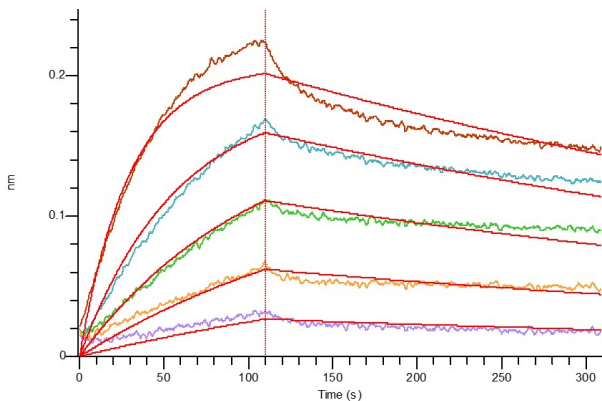
Bioactivity-BLI:



Loaded Mouse VEGFR2-Fc on Protein A Biosensor, can bind Mouse VEGF 164(Cat#MA0616) with an affinity constant of 0.44 nM as determined in BLI assay.



Loaded Human VEGF Antibody (5E7)-Fc on AHC Biosensor, can bind Mouse VEGF164(Cat#MA0616) with an affinity constant of 3.63 nM as determined in BLI assay.



Loaded Human VEGF-165 Antibody (6D9)-Fc on AHC Biosensor, can bind Mouse VEGF164(Cat#MA0616) with an affinity constant of 1.07 nM as determined in BLI assay.

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