

VEGF-A/VEGF164, Mouse, Recombinant

Cat. No. : PCK101

General Information

Synonyms	Vascular Endothelial Growth Factor A; VEGF-A; Vascular Permeability Factor; VPF; VEGFA; VEGFA164; VEGF164
Species	Mouse
Expression host	P.Pichia
Sequence	Ala27-Arg190
Accession	Q00731-2
Mol mass	19.27 kDa
Expiration date	12 months
Bio activity	Loaded Mouse VEGFR2-Fc on Protein A Biosensor, can bind Mouse VEGF 164 with an affinity constant of 0.44 nM as determined in BLI assay.

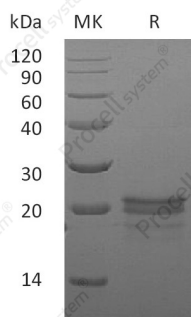
Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 250 mM 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 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

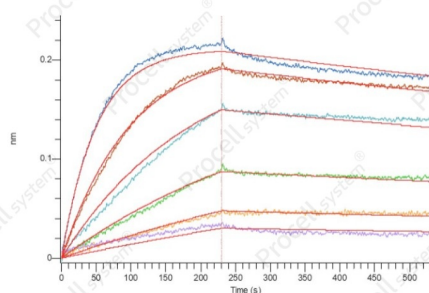
Background

Mouse Vascular endothelial growth factor (VEGF or VEGF-A), 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 Flt-1) 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.

SDS-PAGE



Bio activity



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