

VEGFR2/KDR Recombinant Protein | KDR recombinant protein

Recombinant Cynomolgus VEGFR2/KDR Protein (ECD, His & AVI Tag), Avi-tag Biotinylated, HPLC-verified

CATALOG # AAA259392	HOST HEK293 Cells	REACTIVITY Cynomolgus
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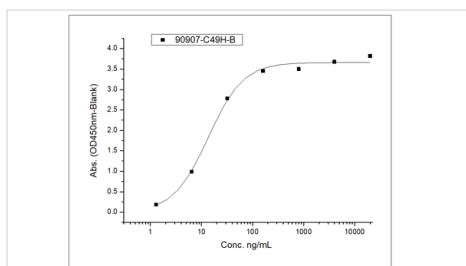
PRODUCT SYNONYMS

VEGFR2/KDR; Recombinant Cynomolgus VEGFR2/KDR Protein (ECD; His & AVI Tag); Avi-tag Biotinylated; HPLC-verified; Cynomolgus VEGFR2/KDR Protein (ECD; Biotinylated; kinase insert domain receptor; KDR recombinant protein

PRODUCT SPECIFICATIONS

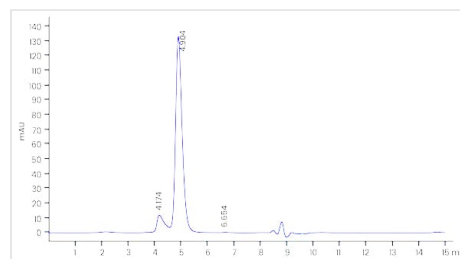
Host	HEK293 Cells
Reactivity	Cynomolgus
Purity/Purification	>= 95% as determined by SDS-PAGE. >= 90% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Met1-Glu76 4
Tag	C-His-AVI
Predicted N Terminal	Ala 20
Endotoxin	< 1.0 EU perug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Cynomolgus KDR (EHH53800.1)(Met1-Glu764) was expressed with a C-terminal polyhistidine tag followed by an AVI tag. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.
Activity	Immobilized Recombinant Human/Cynomolgus VEGF/VEGFA/VEGF165 Protein at 2ug/mL (100uL/well) can bind Recombinant Cynomolgus VEGFR2/KDR Protein (ECD,His&AVI Tag),Biotinylated , the EC50 is 8-25ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

IMAGES

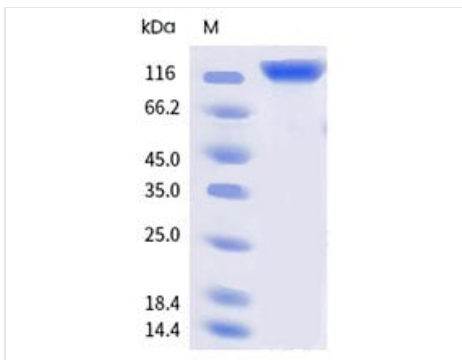


Application Data

Immobilized Recombinant Human/Cynomolgus VEGF/VEGFA/VEGF165 Protein at 2ug/mL (100uL/well) can bind Recombinant Cynomolgus VEGFR2/KDR Protein (ECD,His&AVI Tag),Biotinylated (#AAA259392), the EC50 is 8-25ng/mL.



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ADDITIONAL INFORMATION

Related Product Information for KDR recombinant protein	VEGFR2 also called KDR or Flk-1, is identified as the receptor for VEGF and VEGFC and an early marker for endothelial cell progenitors, whose expression is restricted to endothelial cells in vivo. VEGFR2 was shown to be the primary signal transducer for angiogenesis and the development of pathological conditions such as cancer and diabetic retinopathy. It has been shown that VEGFR2 is expressed mainly in the endothelial cells, and the expression is upregulated in the tumor vasculature. Thus the inhibition of VEGFR2 activity and its downstream signaling are important targets for the treatment of diseases involving angiogenesis. VEGFR2 transduces the major signals for angiogenesis via its strong tyrosine kinase activity. However, unlike other representative tyrosine kinase receptors, VEGFR2 does not use the Ras pathway as major downstream signaling but rather uses the phospholipase C-protein kinase C pathway to signal mitogen-activated protein (MAP)-kinase activation and DNA synthesis. VEGFR2 is a direct and major signal transducer for pathological angiogenesis, including cancer and diabetic retinopathy, in cooperation with many other signaling partners; thus, VEGFR2 and its downstream signaling appear to be critical targets for the suppression of these diseases. VEGF and VEGFR2-mediated survival signaling are critical to endothelial cell survival, maintenance of the vasculature and alveolar structure, and regeneration of lung tissue. Reduced VEGF and VEGFR2 expression in emphysematous lungs has been linked to increased endothelial cell death and vascular regression.
Product Categories/Family for KDR recombinant protein	Cancer Drug Targets Hemangioblast Markers Receptor Tyrosine Kinases (RTKs)
References	Shibuy. M. (2006. Vascula. endothelia. growt. facto. (VEGF)-Receptor2. it. biologica. functions. majo. signalin. pathway. an. specifi. ligan. VEGF-E. Endothelium. 13(2). 63-9. Marwic. JA. e. al. (2010. Cigarett. smok. regulate. VEGFR2-mediate. surviva. signalin. i. ra. lungs. . Inflam. (Lond). 7(1). 11. Brun. AF. e. al. (2010. Ligand-stimulate. VEGFR. signalin. i. regulate. b. co-ordinate. traffickin. an. proteolysis. Traffic. 11(1). 161-74.

NCBI AND UNIPROT INFORMATION

Molecular Weight	The recombinant Cynomolgus KDR consists of 771 amino acids and predicts a molecular mass of 86.56 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 131.6 kDa protein in SDS-PAGE under reducing conditions.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
 Online datasheet: <https://www.aaabiotech.com/vegfr2/kdr-recombinant-protein-hek293-cells/259392>