Human CellExp™ VEGF R1 /Flt-1, Rhesus macaque Recombinant

CATALOG NO: P1394-10 10 µg
P1394-50 50 µg

ALTERNATE NAMES: FLT, VEGFR1, FLT1

MOL. WT. The protein has a calculated MW of 109.1 kDa. The protein migrates as 130 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

SOURCE: HEK 293 cells

PURITY: >95% as determined by SDS-PAGE

ENDOTOXIN: Less than 0.1 EU per µg by the LAL method.

FORM: Lyophilized

FORMULATION: Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5. Normally trehalose is added as protectant before lyophilization.

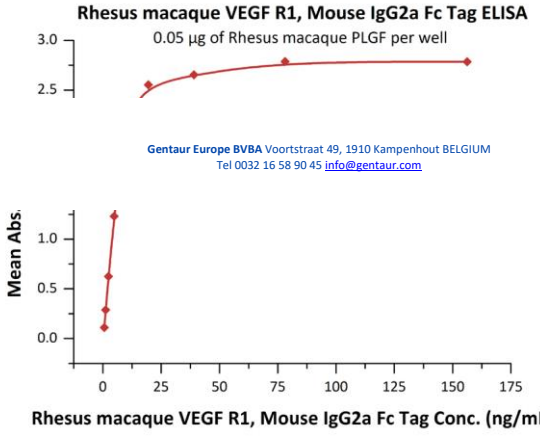
RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 100 µg/ml. Do not vortex. It is recommended to store at -20°C.

SPECIFIC ACTIVITY: Immobilized Rhesus macaque PLGF at 0.5 µg/mL (100 µL/well) can bind Rhesus macaque VEGF R1, Mouse IgG2a Fc Tag with a linear range of 0.6-10 ng/mL.
Immobilized Rhesus macaque VEGF R1, Mouse IgG2a Fc Tag, at 2 µg/mL (100 µL/well) can bind Biotinylated Human VEGF165, His Tag with a linear range of 0.5-3.9 ng/mL

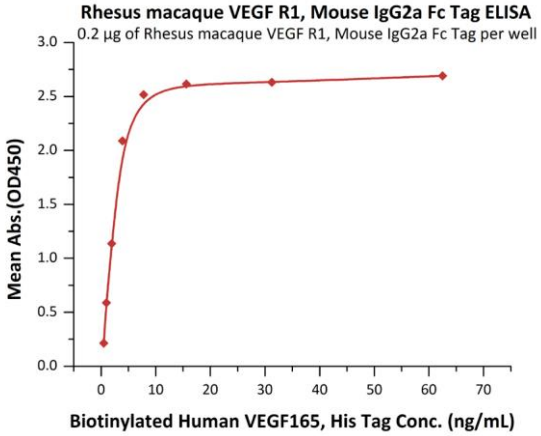
STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles. -20°C

DESCRIPTION: Vascular endothelial growth factor receptor 1 (VEGFR1) is also known as Fms-like tyrosine kinase 1 (FLT-1), Tyrosine-protein kinase receptor FLT, is a single-pass type I membrane protein and secreted protein which belongs to the protein kinase superfamily, Tyr protein kinase family and CSF-1/PDGF receptor subfamily. VEGFR1 is detected in normal lung, but also in placenta, liver, kidney, heart and brain tissues and specifically expressed in most of the vascular endothelial cells, and also expressed in peripheral blood monocytes. VEGFR1 acts as a cell-surface receptor for VEGFA, VEGFB and PGF, and plays an essential role in the development of embryonic vasculature, the regulation of angiogenesis, cell survival, cell migration, macrophage function, chemotaxis, and cancer cell invasion. VEGFR1 may play an essential role as a negative regulator of embryonic angiogenesis by inhibiting the excessive proliferation of endothelial cells. VEGFR1 can promote endothelial cell proliferation, survival and angiogenesis in adulthood.

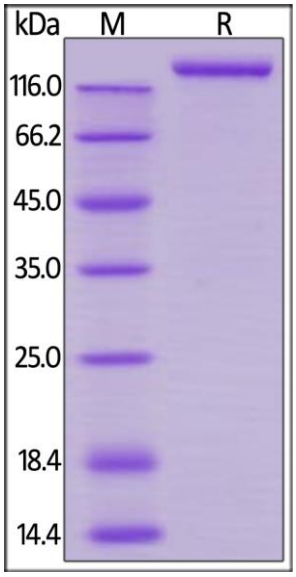
AMINO ACID SEQUENCE: AA Ser 27 - Asn 756



Immobilized Rhesus macaque PLGF at 0.5 µg/mL (100 µL/well) can bind Rhesus macaque VEGF R1, Mouse IgG2a Fc Tag with a linear range of 0.6-10 ng/mL



Immobilized Rhesus macaque VEGF R1, Mouse IgG2a Fc Tag, at 2 μg/mL (100 μL/well) can bind Biotinylated Human VEGF165, His Tag with a linear range of 0.5-3.9 ng/mL



Rhesus macaque VEGF R1, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition.

RELATED PRODUCTS:

Human CellExp™ VEGF R1 /Flt-1, human recombinant (7237)
Human CellExp™ VEGF R3, Fc Tag, human recombinant (P1148)

FOR RESEARCH USE ONLY! Not to be used on humans.

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