Product Name: Recombinant Human VEGFR1 (C-Fc)
Catalog #: PHH1812

Summary

Name	VEGF R1/Flt-1/FLT1
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Vascular Endothelial Growth Factor Receptor 1 is produced by our Mammalian expression system and the target gene encoding Ser27-Asn756 is expressed with a human IgG1 Fc tag at the C-terminus.
Accession #	P17948
Host	Human Cells
Species	Human
Predicted Molecular Mass	109.3 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 5%Trehalose, 5%Mannitol, 0.01%Tween80, pH7.0.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Lyophilized protein should be stored at ≤ -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 ≤ -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image

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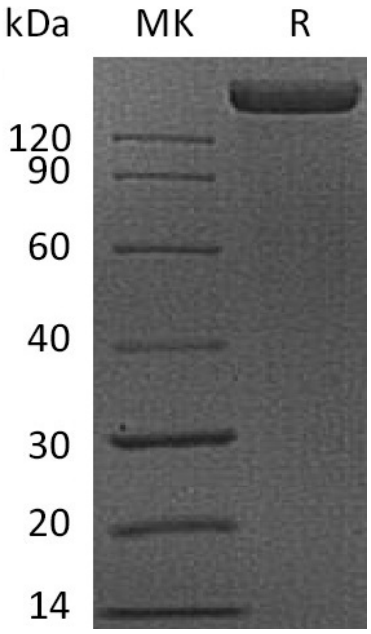

Alternative Names

Vascular endothelial growth factor receptor 1; VEGFR-1; Fms-like tyrosine kinase 1; FLT-1; Tyrosine-protein kinase FRT; Tyrosine-protein kinase receptor FLT; Vascular permeability factor receptor

Background

Human Vascular endothelial growth factor receptor 1(VEGFR-1, FLT-1) is a member of the the class III subfamily of receptor tyrosine kinases (RTKs) and Tyr protein kinase family and CSF-1/PDGF receptor subfamily. VEGFR-1 is widely expressed in human tissues including normal lung, placenta, liver, kidney, heart and brain tissues. It is specifically expressed in most of the vascular endothelial cellsand peripheral blood monocytes. VEGFR-1 contains seven Ig-like C2-type domains and one protein kinase domain. VEGFR-1is an essential receptor tyrosine kinase and plays an important role in theregulation of VEGF family-mediated vasculogenesis, angiogenesis, and lymphangiogenesis. It is also mediators of neurotrophic activity and regulators of hematopoietic development. VEGFR-1 is a receptor for VEGF, VEGFB and PGF. It has a tyrosine-protein kinase activity. Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFA, VEGFB and PGF.It may play an essential role as a negative regulator of embryonic angiogenesis by inhibiting excessive proliferation of endothelial cells and promote endothelial cell proliferation, survival and angiogenesis in adulthood. Its function in promoting cell proliferation seems to be cell-type specific. VEGFR-1 can also promote PGF-mediated proliferation of endothelial cells, proliferation of some types of cancer cells, but does not promote proliferation of normal fibroblasts (in vitro).

Note

For Research Use Only , Not for Diagnostic Use.