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Recombinant Human FLT1 Protein (aa 1-756, His Tag)

Catalog No. PKSH031842

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms 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; FLT; FLT-1; VEGFR-1; VEGFR1

Species Human

HEK293 Cells **Expression Host** Met 1-Asn 756 Sequence P17948-1 Accession Calculated Molecular Weight 83.7 kDa Observed molecular weight 110-120 kDa Tag C-His

Bioactivity Measured by its ability to inhibit the VEGF-dependent proliferation of human

umbilical vein endothelial cells (HUVEC), The ED50 for this effect is typically

10-40 ng/mL in the presence of 10 ng/mL human VEGF165.

Properties

Purity > 97 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

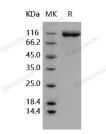
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 97 % as determined by reducing SDS-PAGE.

For Research Use Only

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Background

Vascular endothelial growth factor receptor 1, also known as VEGFR-1, Fms-like tyrosine kinase 1, Tyrosine-protein kinase FRT, Tyrosine-protein kinase receptor FLT, Vascular permeability factor receptor and FLT1, 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. VEGFR-1 / FLT1 contains sevenIg-like C2-type (immunoglobulin-like) domains and one protein kinase domain. VEGFR-1 / FLT1 is expressed mostly in normal lung, but also in placenta, liver, kidney, heart and brain tissues. It is specifically expressed in most of the vascular endothelial cells, and also expressed in peripheral blood monocytes. VEGFR-1 / FLT1 is not expressed in tumor cell lines. VEGFR-1 / FLT1 is an essential receptor tyrosine kinase that regulates mammalian vascular development and embryogenesis. EGF-induced angiogenesis requires inverse regulation of VEGFR-1 and VEGFR-2 in tumor-associated endothelial cells. VEGFR-1 / FLT1 is a receptor for VEGF, VEGFB and PGF. It has a tyrosine-protein kinase activity. The VEGF-kinase ligand/receptor signaling system plays a key role in vascular development and regulation of vascular permeability.

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