

Product datasheet for **TP727300**

VEGF Receptor 1 (FLT1) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human VEGF Receptor 1/VEGF R1/FLT-1 (C-Fc)
Species:	Human
Expression cDNA Clone or AA Sequence:	Ser27-Asn756
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	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 Fc tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	2321
UniProt ID:	<u>P17948</u>
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



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Summary:

Human Vascular endothelial growth factor receptor 1 (VEGFR-1, FLT-1) is a member of the class III subfamily of receptor tyrosine kinases (RTKs) and Tyrosine 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 cells and peripheral blood monocytes. VEGFR-1 contains seven Ig-like C2-type domains and one protein kinase domain. VEGFR-1 is an essential receptor tyrosine kinase and plays an important role in the regulation of VEGF family-mediated vasculogenesis, angiogenesis, and lymphangiogenesis. It is also a mediator 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).

Protein Families:

Druggable Genome, Protein Kinase, Secreted Protein

Protein Pathways:

Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion