VEGFR1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	VEGFR1, Recombinant Protein
Full Product Name	Recombinant Human VEGFR1
Product Gene Name	VEGFR1 recombinant protein
Product Synonym 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
Sequence	Ser27-Asn7 56
Host	Mammalian Cells
Form/Format	Lyophilized from a 0.2um filtered solution of 20mM PB, 150mM NaCl, 5% Trehalose, 5% Mannitol, 0.01% Tween80, pH7.0
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Preparation and Storage	The lyophilized protein is stable at -20 degree C for up to 1 year. After reconstitution, the protein solution is stable at -20 to -80 degree C for 3 months or 1 week at 2 to 8 degree C under sterile conditions. For extended storage, it is recommended to further dilute in working aliquots, avoid repeated freeze/thaw cycle.
Molecular Weight	150,769 Da
Chromosome Location	Chromosome: 13; NC_000013.10 (28874483..29069265, complement). Location: 13q12
OMIM	165070
3D Structure	ModBase 3D Structure for P17948
Species	Human
Endotoxin	< 1 EU/ug as determined by LAL test.
Tag	C-terminal hFc Tag
Reconstitution	Centrifuge the vial at 10000rpm for 30s before opening, reconstitute in sterile distilled water to a concentration of 0.1-1mg/ml by gently pipetting 2-3 times, don't vortex.
Product Categories/Family for VEGFR1 recombinant protein	cytokines
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for VEGFR1 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for VEGFR1 recombinant protein	MBS7621286 is a recombinant protein targeting VEGFR1. Also known as Recombinant Human VEGFR1. Host: Mammalian Cells.
Other Notes	Small volumes of VEGFR1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VEGFR1. It may not necessarily be applicable to this product.

NCBI GI #	229892220

NCBI GeneID	2321
NCBI Accession #	NP_001153392.1
UniProt Primary Accession #	P17948
UniProt Secondary Accession #	O60722; P16057; A3E342; A3E344; A8KA71; B0LPF1; B2BF46; B2BF47; B3FR89; B5A923; F5H5L6
UniProt Related Accession #	P17948
GenBank Nucleotide #	NM_001159920.1
NCBI Official Full Name	vascular endothelial growth factor receptor 1 isoform 2
NCBI Official Synonym Full Names	fms-related tyrosine kinase 1
NCBI Official Symbol	FLT1
NCBI Official Synonym Symbols	FLT; FLT-1; VEGFR1; VEGFR-1
UniProt Protein Name	Vascular endothelial growth factor receptor 1
UniProt Synonym Protein Names	Fms-like tyrosine kinase 1; FLT-1; Tyrosine-protein kinase FRT; Tyrosine-protein kinase receptor FLT; FLT; Vascular permeability factor receptor
UniProt Gene Name	FLT1
UniProt Synonym Gene Names	FLT; FRT; VEGFR1; VEGFR-1; FLT-1; FLT
UniProt Entry Name	VGFR1_HUMAN
NCBI Protein Information	vascular endothelial growth factor receptor 1; fms-like tyrosine kinase 1; tyrosine-protein kinase FRT; tyrosine-protein kinase receptor FLT; vascular permeability factor receptor; fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular
NCBI Summary for VEGFR1	This gene encodes a member of the vascular endothelial growth factor receptor (VEGFR) family. VEGFR family members are receptor tyrosine kinases (RTKs) which contain an extracellular ligand-binding region with seven immunoglobulin (Ig)-like domains, a transmembrane segment, and a tyrosine kinase (TK) domain within the cytoplasmic domain. This protein binds to VEGFR-A, VEGFR-B and placental growth factor and plays an important role in angiogenesis and vasculogenesis. Expression of this receptor is found in vascular endothelial cells, placental trophoblast cells and peripheral blood monocytes. Multiple transcript variants encoding different isoforms have been found for this gene. Isoforms include a full-length transmembrane receptor isoform and shortened, soluble isoforms. The soluble isoforms are associated with the onset of pre-eclampsia.[provided by RefSeq, May 2009]
UniProt Comments for VEGFR1	VEGFR1: a receptor tyrosine kinase of the VEGFR family. Receptor for VEGF, VEGFB and PGF. The VEGF-kinase ligand/receptor signaling system plays a key role in vascular development and regulation of vascular permeability. Two splice variant isoforms have been described. Isoform SFlt1 may have an inhibitory role in angiogenesis. Protein type: Protein kinase, TK; Membrane protein, integral; Kinase, protein; Protein kinase, tyrosine (receptor); EC 2.7.10.1; TK group; VEGFR family Chromosomal Location of Human Ortholog: 13q12 Cellular Component: extracellular space; focal adhesion; integral to plasma membrane; plasma membrane; receptor complex; endosome Molecular Function: vascular endothelial growth factor receptor activity; identical protein binding; protein binding; growth factor binding; transmembrane receptor protein tyrosine kinase activity; ATP binding Biological Process: cell migration; peptidyl-tyrosine phosphorylation; protein amino acid autophosphorylation; positive regulation of phosphoinositide 3-kinase activity; positive regulation of vascular endothelial growth factor receptor signaling pathway; patterning of blood vessels; positive regulation of phosphoinositide 3-kinase cascade; positive regulation of MAP kinase activity; monocyte chemotaxis; positive regulation of angiogenesis; positive regulation of MAPKKK cascade; positive regulation of cell proliferation; blood vessel morphogenesis; sprouting angiogenesis; embryonic morphogenesis; cell differentiation; vascular endothelial growth factor receptor signaling pathway; transmembrane receptor protein tyrosine kinase signaling pathway; positive regulation of cell migration
Research Articles on VEGFR1	**1.** Over-expression of sFlt-1 by trophoblasts led to the barrier dysfunction of glomerular endothelial cells.

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