Recombinant Human TEK, Fc-tagged

Cat. No. TEK-30629TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fusion protein (Human).Recombinant human soluble TIE 2 was fused with the Fc part of human IgG1.The recombinant mature sTIE 2/Fc is a disulfide-linked homodimeric protein.The soluble receptor protein consists of the full extracellular domain (
Species	Human
Description	The TEK receptor tyrosine kinase is expressed almost exclusively in endothelial cells in mice, rats, and humans. This receptor possesses a unique extracellular domain containing 2 immunoglobulin-like loops separated by 3 epidermal growth factor-like repeats that are connected to 3 fibronectin type III-like repeats. The ligand for the receptor is angiopoietin-1.Defects in TEK are associated with inherited venous malformations; the TEK signaling pathway appears to be critical for endothelial cell-smooth muscle cell communication in venous morphogenesis. TEK is closely related to the TIE receptor tyrosine kinase.
Conjugation	Fc
Tissue specificity	Predominantly expressed in endothelial cells and their progenitors, the angioblasts. Has been directly found in placenta and lung, with a lower level in umbilical vein endothelial cells, brain and kidney.
Form	Lyophilised:The lyophilised sTIE-2/Fc is soluble in water and most aqueous buffers.The lyophilised sTIE-2/Fc should be reconstituted in PBS or medium to a

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	concentration not lower than 50 μg/ml.
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: PBS
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. Tie subfamily.Contains 3 EGF-like domains.Contains 3 fibronectin type-III domains.Contains 2 Ig-like C2-type (immunoglobulin-like) domains.Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	TEK TEK tyrosine kinase, endothelial [Homo sapiens]
Official Symbol	TEK
Synonyms	TEK; TEK tyrosine kinase, endothelial; venous malformations, multiple cutaneous and mucosal , VMCM; angiopoietin-1 receptor; CD202b; TIE 2; TIE2; VMCM1;
Gene ID	7010
mRNA Refseq	NM_000459
Protein Refseq	NP_000450
MIM	600221

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Uniprot ID	Q02763
Chromosome Location	9p21
Pathway	Angiogenesis, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis, organism-specific biosystem; Rheumatoid arthritis, organism-specific biosystem;
Function	ATP binding; nucleotide binding; protein binding; protein kinase activity; protein tyrosine kinase activity;

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