Recombinant Human TEK Tyrosine Kinase, Endothelial

Cat. No. TEK-1687H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	Mammalian Cells
Description	Tyrosine kinase with immunoglobulin-like and EGF-like domains 2 (Tie-2) are novel endothelial cell tyrosine kinase receptors that are essential for vascular development and remodeling in the embryo. They are expressed almost exclusively in endothelial cells. Tie-2 is functional in pericytes and may play an important role in the progression of diabetic retinopathy, by regulating pericyte loss and influencing the activation state and recruitment of pericytes. Tie2 has been shown to be up-regulated in psoriasis and in breast cancer tissue and blocking Tie2 action inhibits tumor angiogenesis and tumor growth.
Molecular Weight	The predicted molecular weight of Recombinant Human Tie-2/Fc is Mr 100 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 165 kDa.
State Of Matter	Lyophilized.
Purity	>90% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/μg as determined by the LAL method.

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Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20℃ to -70℃. After aseptic reconstitution, this protein may be stored at 2℃ to 8℃ for one month or at -20℃ to -70℃ in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	TEK TEK tyrosine kinase, endothelial [Homo sapiens]
Synonyms	TEK; TEK tyrosine kinase, endothelial; TIE2; VMCM; TIE-2; VMCM1; CD202B; soluble TIE2 variant 1; soluble TIE2 variant 2; p140 TEK
Gene ID	7010
mRNA Refseq	NM_000459
Protein Refseq	NP_000450
MIM	600221
UniProt ID	Q02763
Chromosome Location	9p21
Pathway	Hemostasis; Signaling in Immune system
Function	ATP binding; nucleotide binding; protein binding; receptor activity; transferase activity; transmembrane receptor protein tyrosine kinase activity

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