

Recombinant Human TEK Tyrosine Kinase, Endothelial

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

SPECIFICATION

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|------------------------------|---|
| Species | Human |
| Source | Mammalian Cells |
| Description | <p>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.</p> |
| Molecular Weight | <p>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.</p> |
| State Of Matter | Lyophilized. |
| Purity | >90% by SDS Page and analyzed by silver stain. |
| Endotoxin | <1.0 EU/g as determined by the LAL method. |
| Storage And Stability | <p>This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to</p> |

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8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

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| 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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