

## Active Recombinant Human TEK, Fc-tagged, Biotinylated

Cat. No. TEK-702H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	The recombinant human Tie2-Fc fusion is expressed as a 952 amino acid protein consisting of Ala23- Met746 region of Tie2 and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>Form</b>	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
<b>Bio-activity</b>	Recombinant Tie2 protein binds human Angiopoietin-2 and inhibits Angiopoietin-2 mediated signaling activity.
<b>Molecular Mass</b>	Calculated molecular mass (kDa): 106.3; Estimated by SDS-PAGE under reducing condition (kDa): 110-120
<b>AA Sequence</b>	<p>AMDLILINSLPLVSDAETSLTCIASGWRPHEPITIGRDFEALMNQHQDPLEVTQDVTR            EWAKKVVWKREKASKI NGAYFCEGRVVRGEAIRIRTMKMRQQASFLPATLTMVTDK            GDNVNISFKKVLIKEEDAVIYKNGSFIHSVPRHEV PDILEVHLPHAQPQDAGVYSARY            IGGNLFTSAFTRLIVRRCEAQKWGPECNHLCTACMNNGVCHEDTGEICIPP GFMG            RTCEKACELHTFGRTCKERCSGQEGCKSYVFCLPDPYGCSCATGWKGLQCNEAC            HPGFYGPDCKLRCSCN NGEMCDRFQGLCSPGWQGLQCEREGIPRMTPKIVDLP            DHIEVNSGKFNPKASGWPLPTNEEMTLVKPDGTV LHPKDFNHTDHFSVAIFTIHR            LPPDSGVVWVCSVNTVAGMVEKPFNISVKVLPKPLNAPNVIDTGHNFVINI SSEPYF</p>

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GDGPIKSKLLYKPVNHYEAWQHIQVTNEIVTLNYLEPRTEYELCVQLVRRGEGGEG  
 HPGPVRRFTTA SIGLPPRGLNLLPKSQTTLNLTWQPIFPSEDDFYVEVERRSVQK  
 SDQQNIKVPGNLTSVLLNNLHPREQYVV RARVNTKAQGEWSEDLTAWTSLDILPPQ  
 PENIKISNITHSSAVISWTILDGYSISSITIRYKVQGKNEQHVVDV KIKNATITQYQLKG  
 LEPETAYQVDIFAENNIGSSNPAFSHELVTLPESQAPADLGGGKMSTGHTCPCPA  
 PEL LGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNA  
 KTKPREEQYNSTYRVVSVLT VLNHLDWLNQKEYKCKVSNKALPAPIEKTISKAKGQP  
 REPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEW ESNGQPENNYKTTTPVLD  
 SDGSFFLYSKLTVDKSRWQQGNVFCSSVMHEALHNHYTQKSLSLSPGK

**Endotoxin**

<0.1 eu="" per="" 1="" μg="" of="" purified="" recombinant="" protein="" determined="" by="" the="" lal="">

**Purity**

>95% judged by SDS-PAGE under reducing condition

**Storage**

The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

**Conjugation**

Biotin

## 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; hTIE2;

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p140 TEK; soluble TIE2 variant 1; soluble TIE2 variant 2; endothelial tyrosine kinase; tyrosine-protein kinase receptor TEK; tunica interna endothelial cell kinase; tyrosine-protein kinase receptor TIE-2; tyrosine kinase with Ig and EGF homology domains-2; VMCM; TIE-2; CD202B;

**Gene ID** [7010](#)

**mRNA Refseq** [NM\\_000459](#)

**Protein Refseq** [NP\\_000450](#)

**MIM** [600221](#)

**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; Rheumatoid arthritis, conserved biosystem; Tie2 Signaling, organism-specific biosystem;

**Function**

ATP binding; nucleotide binding; protein binding; protein kinase activity; protein tyrosine kinase activity; protein tyrosine kinase activity; receptor activity; transmembrane receptor protein tyrosine kinase activity;

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