

Active Recombinant Human TEK, Fc-tagged

Cat. No. TEK-703H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human Cells
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free).
Bio-activity	Recombinant Tie2 protein binds human Angiopoietin-2 and inhibits Angiopoietin-2 mediated signaling activity.
Molecular Mass	Calculated molecular mass (kDa): 106.3; Estimated by SDS-PAGE under reducing condition (kDa): 110-120
AA Sequence	AMDILINSLPLVSDAETSLTCIASGWRPHEPITIGRDFEALMNQHQDPLEVTQDVTR EWAKKVVWKREKASKI NGAYFCEGRVRGEAIRITMKMRQQASFLPATLTMTVDK GDNVNISFKKVLIKEEDAVIYKNGSFIHVSVPHEV PDILEVHLPHPAQPDAGVYSARY IGGNLFTSAFTRLIVRRCEAQKWGPECNHLCTACMNNGVCHEDTGECICPP GFMG RTCEKACELHTFGRTCKERCSGQEGCKSYVFCCLPDYPYGCSCATGWKGLQCNEAC HPGFYGPDCCKLRCSN NGEMCDRFQGCLCSPGWQGLQCEREGIPRMTPKIVDLP DHIEVNSGKFNPICKASGWPLPTNEEMTLVKPDGTV LHPKDFNHTDHFSAIFTIHRI LPPDSGVVWCSVNTVAGMVEKPFNISVKVLPKPLNAPNVIDTGHNFVINI SSEPYF GDGPIKSKLLLYKPVNHYEAWQHIQVTNEIVTLNYLEPRTEYELCVQLVRRGEGGEG

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HPGPVRRFTTA SIGLPPPRGLNLLPKSQTTLNLTWQPIFPSEDDFYVEVERRSVQK
SDQQNIKVPGNLTSVLLNNLHPREQYVV RARVNTKAQGEWSEDLTAWTSLDILPPQ
PENIKISNITHSSAVISWTILDGYSISSITIRYKVQGKNEDQHVDV KIKNATITQYQLKG
LEPETAYQVDIFAENNIGSSNPAFSHELVTLPESEQAPADLGGGKMSTGHTCPPCPA
PEL LGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNA
KTKPREEQYNSTYRVVSVLT VLNQDNLNGKEYKCKVSNKALPAPIEKTISKAKGQP
REPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEW ESNGQPENNYKTTPPVLD
SDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

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.

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; p140 TEK; soluble TIE2 variant 1; soluble TIE2 variant 2; endothelial tyrosine kinase; tyrosine-protein kinase receptor TEK; tunica interna endothelial cell kinase; tyrosine-

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	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;