

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

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AMDILINSLPLVSDAETSLTCIASGWRPHEPITIGRDFEALMNQHQDPLEVTQDVTR
EWAKKVVWKREKASKI NGAYFCEGRVVRGEAIRRTMKMRQQASFLPATLTMTVDK
GDNVNISFKKVLIKEEDAVIYKNGSFIHSVPRHEV PDILEVHLPHAQPQDAGVYSARY
IGGNLFTSAFTRLIVRRCEAQKWGPECNHLCTACMNNGVCHEDTGECICPP GFMG
RTCEKACELHTFGRTCKERCSGQEGCKSYVFCCLPDYPYGCSCATGWKGLQCNEAC
HPGFYGPDCCKLRCSN NGEMCDRFQGCCLCSPGWQGLQCEREGIPRMTPKIVDLP
DHIEVNSGKFNPKICKASGWPLPTNEEMTLVKPDGTV LHPKDFNHTDHFSAIFTIHR
LPPDSGVVWCSVNTVAGMVEKPFNISVKVLPKPLNAPNVIDTGHNFVINI SSEPYF
GDGPIKSKLLLYKPVNHYEAWQHIQVTVNEIVTLNYLEPRTEYELCVQLVRRGEGEG
    
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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

HPGPVRRFTTA SIGLPPPRGLNLLPKSQTTLNLTWQPIFPSEDDFYVEVERRSVQK
 SDQQNIKVPGNLTSVLLNNLHPREQYVV RARVNTKAQGEWSEDLTAWTLSDILPPQ
 PENIKISNITHSSAVISWTILDGYSISSITIRYKVQGKNEHQHVDV KIKNATITQYQLKG
 LEPETAYQVDIFAENNIGSSNPAFSHELVTLPESQAPADLGGGKMSTGTHTCPPCPA
 PEL LGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNA
 KTKPREEQYNSTYRVVSVLT VLNHLDWLNQKEYKCKVSNKALPAPIEKTISKAKGQP
 REPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEW ESNGQPENNYKTTPPVLD
 SDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

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; Angiotensin 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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