

Datasheet for ABIN1589758

TEK Protein (Dimer, glycosylated, Soluble) (Fc Tag)[Go to Product page](#)

Overview

Quantity:	20 µg
Target:	TEK
Protein Characteristics:	glycosylated, Dimer, Soluble
Origin:	Mouse
Source:	CHO Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TEK protein is labelled with Fc Tag.

Product Details

Purpose:	TIE-2/Fc Chimera, soluble
Sequence:	GAMDILILINS LPLVSDAETS LTCIASGWHP HEPITIGRDF EALMNQHQP LEVTQDV TRE WAKKVVWKRE KASKINGAYF CEGRVRGQAI RIRTMKMRQQ ASFLPATLTM TVDRGDNVNI SFKKVLIKEE DAVIYKNGSF IHSVPRHEVP DILEVHLP HA QPQDAGVYSA RYIGGNLFTS AFTRLIVRRC EAQKWGPDCS RPCTTCKNNG VCHEDTGECI CPPGFMGRTC EKACEPHTFG RTCKERCSGP EGCKSYVFCL PDPYGCSCAT GWRGLQCNEA CPSGYYGPDC KLRCHCTNEE ICDRFQGCLC SQGWQGLQCE KEGRPRMTPQ IEDLPDHIEV NSGKFN PICK ASGWPLPTSE EMTLVKPDGT VLQPNDFNYT DRFSVAIFTV NRVLPPDSGV WVCSVNTVAG MVEKPFNISV KVLPEPLHAP NVIDTGHNFA IINISSEPYF GDGPIKSKKL FYKPVNQAWK YIEVTNEIFT LNYLEPRTDY ELCVQLARPG EGEGHPGPV RRFTTASIGL PPPRGLSLLP KSQTALNLTW QPIFTNSEDE FYVEVERRSL QTTSDQQNIK VPGNLTSVLL SNLVPREQYT VRARVNTKAQ GEWSEELRAW T LSDILPPQP ENIKISNITD STAMVSWTIV DGYSISSIII RYKVQGKNE D QHIDVKIKNA TVTQYQLKGL EPETTYHVDI FAENNIGSSN PAFSHELRTL PHSPASADLG

Product Details

TRSDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTCVVVDVS HEDPEVKFNW
YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLNQDQWLNGK EYKCKVSNKA LPAPIEKTIS
KAKGQPREPQ VYTLPPSREE MTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTTTPPM
LDSDGSEFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK

Specificity: Chromosomal location:4 C5, 4 43.34 cM

Characteristics: Length (aa):978

Purity: > 90 % by SDS-PAGE

Target Details

Target: TEK

Alternative Name: TIE-2 ([TEK Products](#))

Background: Recombinant murine soluble TIE-2 was fused with the Fc part of human IgG1. The recombinant mature sTIE-2/Fc is a disulfide-linked homodimeric protein. The sTIE-2/Fc monomers have a mass of approximately 105 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 140 kDa protein in SDS-PAGE under reducing conditions. The soluble receptor protein consists of the full extracellular domain (Val19-Leu740). TIE-1 (tyrosine kinase with Ig and EGF homology domains 1) and TIE-2/Tek comprise a receptor tyrosine kinase (RTK) subfamily with unique structural characteristics: two immunoglobulin-like domains flanking three epidermal growth factor (EGF)-like domains and followed by three fibronectin type III-like repeats in the extracellular region and a split tyrosine kinase domain in the cytoplasmic region. These receptors are expressed primarily on endothelial and hematopoietic progenitor cells and play critical roles in angiogenesis, vasculogenesis and hematopoiesis. Human TIE-1 cDNA encodes a 1122 amino acid (aa) residue precursor protein with an 18 residue putative signal peptide, a 726 residue extracellular domain and a 353 residue cytoplasmic domain. Two ligands, angiopoietin-1 (Ang1) and angiopoietin-2 (Ang2), which bind TIE-2 with high-affinity have been identified. Ang2 has been reported to act as an antagonist for Ang1. Mice engineered to overexpress Ang2 or to lack Ang1 or Tie-1 display similar angiogenic defects.

Synonyms: Angiopoietin-1 receptor, Endothelial tyrosine kinase, HYK, STK1, Tunica interna endothelial cell kinase, Tyrosine kinase with Ig and EGF homology domains-2, Tyrosine-protein kinase receptor TEK, Tyrosine-protein kinase receptor TIE-2, p140 TEK, CD202b, Tek, Hyk, Tie2, AA517024

Molecular Weight: 280.0 kDa

Gene ID: 21687

Target Details

NCBI Accession: [NM_013690, NP_038718](#)

UniProt: [Q02858](#)

Pathways: [RTK Signaling, Growth Factor Binding](#)

Application Details

Comment: Soluble Receptors

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge vial prior to opening. The lyophilized sTIE-2-His is soluble in water and most aqueous buffers and should be reconstituted in PBS or medium to a concentration not lower than 50 μ g/mL.

Buffer: PBS

Storage: -20 °C, -80 °C

Storage Comment: Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted sTIE-2/hFc should be stored in working aliquots at -20°C.

Expiry Date: 6 months