

Datasheet for ABIN1589962

TIE1 Protein (Dimer, glycosylated, Soluble) (Fc Tag)[Go to Product page](#)

Overview

Quantity:	20 µg
Target:	TIE1
Protein Characteristics:	glycosylated, Dimer, Soluble
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TIE1 protein is labelled with Fc Tag.

Product Details

Purpose:	TIE-1/Fc Chimera, soluble
Sequence:	<p>VDLTLLANLR LTDPQRFFLT CVSGEAGAGR GSDAWGPPLL LEKDDRIVRT PPGPPLRLAR NGSHQVTLRG FSKPSDLVGV FSCVGGAGAR RTRVIYVHNS PGAHLLPKV THTVNKGDTA VLSARVHKEK QTDVIWKSNG SYFYTLDWHE AQDGRFLLQL PNVQPPSSGI YSATYLEASP LGSAFFRLIV RCGAGRWGP GCTKECPGCL HGGVCHDHDG ECVCPPGFTG TRCEQACREG RFGQSCQEQC PGISGCRGLT FCLPDPYGCS CGSGWRGSQC QEACAPGHFG ADCRLQCQCQ NGGTCDRFSG CVCPSGWHGV HCEKSDRIPQ ILNMASELEF NLETMPRINC AAAGNPPFVR GSIELRKP DG TVLLSTKAIV EPEKTAEFE VPRLVLADSG FWECRVSTSG GQDSRRFKVN VKVPPVPLAA PRLTKQSRQ LVVSPVLSFS GDGPSTVRL HYRPQDSTMD WSTIVVDPSE NVTLMNLRPK TGYSVRVQLS RPEGEGEGAW GPPTLMTTDC PEPLLQPWLE GWHVEGTDRL RVSWSLPLVP GPLVGDGFL RLWDGTRGQE RRENVSSPQA RTALLTGLTP GTHYQLDVQL YHCTLLGPAS PPAHVLLPPS GPPAPRHLHA QALSDSEIQL TWKHPEALPG PISKYVVEVQ VAGGAGDPLW IDVDRPEETS TIIRGLNAST RYLFRMRASI QGLGDWSNTV EESTLGNGLQ</p>

Product Details

AEGPVQETRS DKTHTCPPCP APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHED
PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA
PIEKTISKAK GQPREPQVYT LPPSREEMTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN
YKTTTPMLDS DGSFFLYSKL TVDKSRWQQG NVFSCSVMHE ALHNHYTQKS LSLSPGK

Specificity: Chromosomal location:1p34-p33

Characteristics: Length (aa):957

Purity: > 90 % by SDS-PAGE

Target Details

Target: TIE1

Alternative Name: TIE-1 ([TIE1 Products](#))

Background: Recombinant human soluble TIE-1 was fused with the Fc part of human IgG1. The soluble receptor protein consists of the full extracellular domain (Met1-Glu749). The recombinant mature TIE-1/Fc is a disulfide-linked homodimeric protein. Human TIE-1/Fc monomer has a calculated molecular mass of approximately 105 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 125 kDa protein in SDS-PAGE under reducing conditions. 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 1124 amino acid (aa) residue precursor protein with an 18 residue putative signal peptide, a 727 residue extracellular domain and a 354 residue cytoplasmic domain. Whereas two ligands have been described for TIE-2 [angiopoietin-1 (Ang1) and angiopoietin-2 (Ang2)], so far no ligand was found for TIE-1.

Synonyms: TIE1, TIE, JTK14

Molecular Weight: 240 kDa

Gene ID: 7075

NCBI Accession: [NM_005424](#), [NP_005415](#)

UniProt: [P35590](#)

Target Details

Pathways: [RTK Signaling](#)

Application Details

Comment: Soluble Receptors

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge vial prior to opening. The lyophilized sTIE-1-His is soluble in water and most aqueous buffers and should be reconstituted in PBS to a concentration not lower than 50 µg/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-1/Fc should be stored in working aliquots at -20°C.

Expiry Date: 6 months