

## Human TIE-1 soluble / FC Chimera (InCs)

Synonyms: TIE1, TIE, JTK14

**PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING**

Size	Order #	Lot #	Expiry Date
20 µg	1950.952.020		
100 µg	1950.952.100		

Please enquire for bulk quantities and other vial sizes

### Description

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.

- **Source** Insect cells
- **Purity** ≥ 90 % (SDS-PAGE, silver stained)

### Biological Activity

Bioassay data are not available.

### 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 50µg/ml.

### Amino Acid Sequence

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VDLTLLANLR LTDPQRFFLT CVSGEAGAGR GSDAWGPPLL LEKDDRIVRT PPGPPLRLAR NGSHQVTLRG
FSKPSDLVGV FSCVGGAGAR RTRVIYVHNS PGAHLLPDKV THTVKNKGDTA VLSARVHKEK QTDVIWKSNG
SYFYTLDWHE AQDGRFLLQL PNVQPPSSGI YSATYLEASP LGSAFFRLIV RCGCAGRWGP GCTKECPGCL
HGGVCHDHDG ECVCPPGFTG TRCEQACREG RFGQSCQEQC PGISGCRGLT FCLPDPYGCS CGSGWRGSQC
QEACAPGHFG ADCRLQCQCQ NGGTCDRFSG CVCPSGWHGV HCEKSDRIPQ ILNMASELEF NLETMPRINC
AAAGNPFVPR GSIELRKP DG TVLLSTKAIV EPEKTAEFE VPRLVLADSG FWECRVSTSG GQDSRRFKVN
VKVPPVPLAA PRLLTQSRQ LVSPLVSFS GDGPISTVRL HYRPQDSTMD WSTIVVDPSE NVTLMNLRPK
TGYSVRVQLS RPGE GEGAW GPPTLMTTDC PEPLLQPWLE GWHVEGTDRL RVSWSLPLVP GPLVGDGFL
RLWDGTRGQE RRENVSSPQA RTALLTGLTP GTHYQLDVQL YHCTLLGPAS PPAHVLLPPS GPPAPRHLHA
QALSDSEIQL TWKHPEALPG PISKYVVEVQ VAGGAGDPLW IDVDRPEETS TIIRGLNAST RYLFRMRASI
QGLGDWSNTV EESTLGNGLQ AEGPVQETRS DKTHTCPPCP APELLGGPSV FLFPKPKKDT LMISRTPEVT
CVVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA
PIEKTISKAK GQPREPQVYT LPPSREEMTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTTPMLDS
DGSFFLYSKL TVDKSRWQQG NVFSCSVME ALHNHYTQKS LSLSPGK
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**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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