

## Human TIE-2 soluble

Synonyms: EGFR, ERBB, HER1, mENA, ERBB1, PIG61

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

Size	Order #	Lot #	Expiry Date
10 µg	4018.952.010		
50 µg	4018.952.050		

Please enquire for bulk quantities and other vial sizes

### Description

Recombinant human soluble TIE-2/TEK was fused with a 6x His-tag at the C-terminus. The soluble receptor protein consists of the full extracellular domain (Thr19-Lys745). 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-2 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. 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-2 display similar angiogenic defects.

- **Source** Insect cells
- **Purity** ≥ 95 % (SDS-PAGE, silver stained)

### Biological Activity

Testing under progress.

### 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 50µg/ml.

### Amino Acid Sequence

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AMDLILINSL PLVSDAETSL TCIASGWRPH EPITIGRDFE ALMNQHQDPL EVTQDVTREW AKKVVKREK
ASKINGAYFC EGRVRGEAIR IRTMKMRQQA SFLPATLTMT VDKGDNVNIS FKKVLIKEED AVIYKNGSFI
HSVPRHEVPD ILEVHLPHAQ PQDAGVYSAR YIGGNLFTSA FTRLIVRRCE AQKWGPECNH LCTACMNGV
CHEDTGECIC PPGFMGRTCE KACELHTFGR TCKERCSEQE GCKSYVFCLP DPYGCSCATG WKGLQCNEAC
HPGFYGPDCCK LRCSCNNGEM CDRFQGCCLCS PGWQGLQCER EGIPRMTPKI VDLPDHIEVN SGKFNPICKA
SGWPLPTNEE MTLVKPDGTV LHPKDFNHTD HFSVAIFTIH RILPPDSGVW VCSVNTVAGM VEKPFNISVK
VLPKPLNAPN VIDTGHNFAV INISSEPYFG DGPIKSKKLL YKPVNHYEAW QHIQVTNEIV TLNLYLEPRTE
YELCVQLVRR GEGGEGHPGP VRRFTTASIG LPPRGLNLL PKSQTTLNLT WQPIFPSSSED DFYVEVERRS
VQKSDQQNIK VPGNLTSVLL NNLHPREQYV VRARVNTKAQ GEWSEDLTAW TLSDILPPQP ENIKISNITH
SSAVISWTIL DGYSISSITI RYKVQGKNEQ QHVDVKIKNA TIIQYQLKGL EPETAYQVDI FAENNIGSSN
PAFSHELVTLL PESQAPADLG GPKTRHHHHH H
  
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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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