

## Murine TIE-2 soluble / FC Chimera (CHO)

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.

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

Size	Order#	Lot#	Expiry Date
20 µg	1951.964.020		
100 µg	1951.964.100		

Please enquire for bulk quantities and other vial sizes.

### Description

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.

- **Source** CHO
- **Purity** ≥ 90 % (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.

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

**Amino Acid Sequence**

GAMDLILINS LPLVSDAETS LTCIASGWHP HEPITIGRDF EALMNQHQDP LEVTQDVTRE WAKKVVWKRE  
KASKINGAYF CEGRVVGQAI RIRTMKMRQQ ASFLPATLTM TVDRGDNVNI SFKKVLIKEE DAVIYKNGSF  
IHSVPRHEVP DILEVHLPHA QPQDAGVYSA RYIGGNLFYS AFTRLIVRRC EAQKWGPDCS RPCTTCKNNG  
VCHEDTGECE CPPGFMGRTC EKACEPHTFG RTCKERCSGP EGCKSYVFCL PDPYGCSCAT GWRGLQCNEA  
CPSGYYGPDG KLRCHCTNEE ICDRFQGCLC SQGWQGLQCE KEGRPRMTPQ IEDLPDHIEV NSGKFNPICK  
ASGWPLPTSE EMTLVKPDGT VLQPNDFNYT DRFSVAIFTV NRVLPPDSGV WVCSVNTVAG MVEKPFNISV  
KVLPEPLHAP NVIDTGHNFA IINISSEPYF GDGPIKSKKL FYKPVNQAWK YIEVTNEIFT LNYLEPRTDY  
ELCVQLARPG EGGEHHPGPV RRFTTASIGL PPPRGLSLLP KSQTALNLTW QPIFTNSEDE FYVEVERSL  
QTTSDQQNIK VPGNLTSVLL SNLVPREQYT VRARVNTKAQ GEWSEELRAW TLSDILPPQP ENIKISNITD  
STAMVSWTIV DGYSISSIII RYKVQGNED QHIDVKIKNA TVTQYQLKGL EPETTYHVDI FAENNIGSSN  
PAFSHELRTL PHSPASADLG TRSDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTCVVVDVS  
HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLHQDWLNGK EYKCKVSNKA LPAPIEKTIS  
KAKGQPREPQ VYTLPPSREE MTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTTPPM LDSDGSFFLY  
SKLTVDKSRW QQGNVFCSSV MHEALHNHYT QKSLSLSPGK

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

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