

TIE-2, soluble Active Protein | TIE-2 active protein

Human TIE-2, soluble

CATALOG # AAA79307	HOST Insect Cells	REACTIVITY Human
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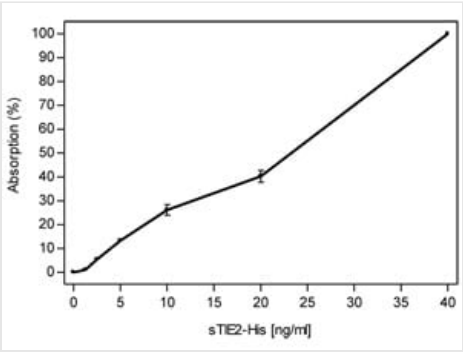
PRODUCT SYNONYMS

TIE-2; soluble; Human TIE-2; Recombinant Human soluble TIE-2-His Receptor; Endothelial tyrosine kinase; Tyrosine kinase with Ig and EGF homology domains-2; TIE-2 active protein

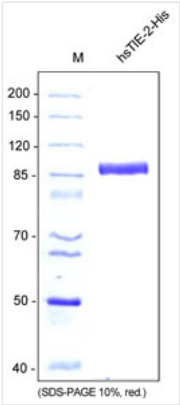
PRODUCT SPECIFICATIONS

Host	Insect Cells
Reactivity	Human
Purity/Purification	> 95% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	AMDILILNSL PLVSDAETSL TCIASGWRPH EPITIGRDFE ALMNQHQDPL EVTQDVTREW AKKVWVKREK ASKINGAYFC EGRVRGEAIR IRTMKMRQQA SFLPATLTMT VDKGDNVNIS FKKVLIKEED AVIYKNGSFI HSVPRHEVPD ILEVHLP HQ P QDAGVYSAR YIGGNLFTSA FTRLIVRRCE AQKWGPECNH LCTACMNNGV CHEDTGECIC PPGFMGRTCE KACELHTFGR TCKERCSGQE GCKSYVFCLP DPYGCSCATG WKGLQCNEAC HPGFYGPDCK LRCSCNNGEM CDRFQGCLCS PGWQGLQCER EGIPRMTPKI VDLPDHIEVN SGKFN PICKA SGWPLPTNEE MTLVKPDGT V LHPKDFNHTD HFSVAIFTIH RILPPDSGVW VCSVNTVAGM VEKPFNISVK VLPKPLNAPN VIDTGHNF AV INISSEPYFG DGPIKSKLL YKPVNHYEAW QHIQVTNEIV TLNYLEPRTE YELCVQLVRR GEGGEGHPGP VRRFTTASIG LPPPRGLNLL PKSQTTLNLT WQPIFPSSD DFYVEVERRS VQKSDQQNIK VPGNLTSVLL>NNLHPREQYV VRARVNTKAQ GEWSEDLTAW T LSDILPPQP ENIKISNITH SSAVISWTIL DGYSISSITI RYKVQGKNE D QHVDVKIKNA TIIQYQLKGL EPETAYQVDI FAENNIGSSN PAFSHELVT L PESQAPADLG GGKTRHHHHH H
Sequence Length	731
N Terminal Sequence	AMDILILNSL
Buffer	PBS
Preparation and Storage	Lyophilized samples are stable for greater than six months at -20 degree C to -70 degree C. Reconstituted sTIE-2-His should be stored in working aliquots at -20 degree C.

IMAGES



ELISA
Functional ELISA to test the binding of sTIE-2 to its ligand Ang-2. Ang-2 was coated on the plate and increasing amounts of recombinant human soluble sTIE-2 was added



SDS-PAGE
SDS-PAGE analysis of recombinant human soluble TIE-2-His produced from insect cells. Sample was loaded in 10% SDS-polyacrylamide gel under reducing condition and stained with Coomassie blue

ADDITIONAL INFORMATION

Related Product Information for TIE-2 active protein	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.
Product Categories/Family for TIE-2 active protein	Soluble receptors
References	1. Partanen J and DJ Dumont (1999) Curr Top Microbiol Immunol 237:159. 2. Takakura N et al, (1998) Immunity 9:677. 3. Procopio W et al, (1999) J Biol Chem 274:30196.

NCBI AND UNIPROT INFORMATION

NCBI GI #	88758596
NCBI GeneID	7010
NCBI Accession #	NP_000450.2
NCBI GenBank Nucleotide #	NM_000459.3
UniProt Accession #	Q02763; Q5TCU2; Q8IV34; A8K6W0; B4DH20; B4DHD3; D3DRK5; E7EWI2
Molecular Weight	95 kDa
NCBI Official Full Name	angiopoietin-1 receptor
NCBI Official Synonym Full Names	TEK tyrosine kinase, endothelial
NCBI Official Symbol	TEK
NCBI Official Synonym Symbols	TIE2; VMCM; TIE-2; VMCM1; CD202B

NCBI Protein Information	angiopoietin-1 receptor; hTIE2; p140 TEK; soluble TIE2 variant 1; soluble TIE2 variant 2; endothelial tyrosine kinase; tyrosine-protein kinase receptor TEK; tunica interna endothelial cell kinase; tyrosine-protein kinase receptor TIE-2; tyrosine kinase with Ig and EGF homology domains-2
UniProt Protein Name	Angiopoietin-1 receptor
UniProt Gene Name	TEK
UniProt Synonym Gene Names	TIE2; VMCM; VMCM1; hTIE2
UniProt Entry Name	TIE2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/insect-human-active-protein/tie-2-soluble/79307>