

TIE-2 Fc Chimera Active Protein | TIE-2 Fc active protein

Recombinant Human TIE-2 Fc Chimera

CATALOG # AAA38404	HOST Insect Cells
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PRODUCT SYNONYMS

TIE-2 Fc Chimera; Recombinant Human TIE-2 Fc Chimera; TIE2 Fc Human; TIE2 Fc Chimera Human Recombinant; Angiopoietin-1 receptor precursor; Tyrosine-protein kinase receptor TIE-2; hTIE2; Tyrosine-protein kinase receptor TEK; p140 TEK; Tunica interna endothelial cell kinase; CD202b; VMCM; VMCM1; TIE2; TIE-2 Fc active protein

PRODUCT SPECIFICATIONS

Host	Insect Cells
Purity/Purification	Greater than 90.0% as determined by(a)Analysis by RP-HPLC. (b)Analysis by SDS-PAGE.
Form/Format	TIE-2 Fc Chimera was lyophilized from a concentrated (1 mg/ml) sterile solution containing 1x PBS. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence Length	1124
Solubility	It is recommended to reconstitute the lyophilized TIE-2 Fc Chimera in sterile water not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Measured in a functional ELISA assay. When TIE-2/Fc is immobilized at 4 ug/mL (100 ul/well), it binds rh Angiopoietin-2 with a linear range of 2 -100 ng/ml.
Preparation and Storage	Lyophilized sTIE-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution TIE-2 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for TIE-2 Fc active protein	Description: Soluble TIE-2 Human Recombinant fused with the Fc part of human IgG1 produced in baculovirus is a monomeric, glycosylated, polypeptide containing 730 amino acids and having a total molecular mass of 250 kDa. Human TIE-2/Fc monomer has a calculated molecular mass of approximately 125 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 140 kDa protein in SDS-PAGE under reducing conditions. The TIE2 Fc Chimera is purified by proprietary chromatographic techniques. Introduction: 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.
Product Categories/Family for TIE-2 Fc active protein	Protein Kinases; Enzymes; TIE1; TIE2

NCBI AND UNIPROT INFORMATION

NCBI GI #	88758596
NCBI GeneID	7010
NCBI Accession #	NP_000450.2
NCBI GenBank Nucleotide #	NM_000459.4
UniProt Accession #	Q02763; Q5TCU2; Q8IV34; A8K6W0; B4DH20; B4DHD3; D3DRK5; E7EWI2
Molecular Weight	109,141 Da
NCBI Official Full Name	angiopoietin-1 receptor isoform 1
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; endothelial tyrosine kinase; 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
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/insect-cells-active-protein/tie-2-fc-chimera/38404>