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Tie1
Recombinant Mouse TIE-1/Fc Chimera, soluble

Catalog No.	CRT802A CRT802B	**Quantity:**	20 µg 100 µg

Alternate Names: Tyrosine-protein kinase receptor Tie-1

Description: Recombinant mouse soluble TIE-1 was fused with the Fc part of human IgG_1. The recombinant mature sTIE-1/hFc is a disulfide-linked homodimeric protein. The soluble receptor protein consists of the full extracellular domain (Val23-Glu749).
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. Mouse TIE-1 cDNA encodes a 1134 amino acid (aa) residue precursor protein with an 22 residue putative signal peptide, a 733 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.

UniProt ID: Q06806

Gene ID: 21846

Source: CHO cells

Molecular Weight: 105 kDa, predicted, monomer, under reducing conditions
130 kDa, apparent, due to glycosylation

Formulation: Lyophilized from PBS .

Purity: > 90%, by SDS-PAGE, visualized by silver stain.

Endotoxin Level: < 1 EUµg

Biological Activity: Since a ligand for TIE-1 has not yet been identified, the recombinant protein was not tested for biological activity.

Reconstitution: **Centrifuge vial prior to opening.** Add sterile water to the vial to a concentration of 0.1 - 1.0 mg/mL. **Do not vortex.** After complete solubilization of the protein, it may be further diluted with other solutions containing a carrier protein such as 0.1 % BSA.

Storage & Stability: The lyophilized protein is stable at -20°C to -80° for up to 1 year. Reconstituted working aliquots are stable for 1 week at 2-8°C and for 3 months at -20°C to -80°C.
Avoid repeated freeze/thaw cycles.

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Amino Acid Sequence: VDLTLLANLRITDPQRFFLTCVSGEAGAGRSSDPPLLLEKDDRIVRTFPPGQPLYLARNG
SHQVTLRGFSKPSDLVGVFSCVGGAGARRTRVLYVHNSPGAHLFPDKVTHTVNKGDTA
VLSAHVHKEKQTDVIWKNNGSYFNTLDWQEADDGRFQLQLQNVQPPSSGIYSATYLEA
SPLGSAFFRLIVRGCGAGRWGPGCVKDCPGCLHGGVCHDHDGECVCPPGFTGTRCE
QACREGRFGQSCQEQCPGTAGCRGLTFCLPDPYGCSCGSGWRGSQCQEACAPDHF
GADCRLQCQCQNGGTCDRFSGCVCPSGWHGVHCEKSDRIPQILSMATEVEFNIGTMP
RINCAAAGNPFPVRGSMKLRKPDGTMLLSTKVIVEPDRTTAEFEVPSLTLGDSGFWECR
VSTSGGQDSRRFKVNVKVPPVPLTAPRLLAKQSRQLVVSPLVSFSGDGPISSVRLHYRP
QDSTIAWSAIVVDPSENVTLMNLKPKTGYNVRVQLSRPGEGGEGGWGPSALMTTDCP
EPLLQPWLESWHVEGPDRLRVSWSLPSVPLSGDGFLLRLWDGARGQERRENISFPQA
RTALLTGLTPGTHYQLDVRLYHCTLLGPASPPAHVHLPPSGPPAPRHLHAQALSDSEIQ
LMWQHPEAPSGPISKYIVEIQVAGGSGDPQWMDVDRPEETSIIVRGLNASTRYLFRVRA
SVQGLGDWSNTVEEATLGNGLQSEDPVRESRAAEEGLTRSDKTHTCPPCPAPELLGG
PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQ
YNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPS
REEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPMLDSDGSFFLYSKLTV
DKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

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