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Tek
Recombinant Mouse TIE-2/Fc Chimera, soluble

Catalog No.	CRT803A CRT803B	**Quantity:**	20 µg 100 µg

Alternate Names: Angiopoietin-1 receptor, Tyrosine-protein kinase receptor TEK, Tunica interna endothelial cell kinase, CD202b, p140 TEK

Description: Recombinant mouse soluble TIE-2 was fused with the Fc part of human IgG_1. The recombinant mature sTIE-2/Fc is a disulfide-linked homodimeric protein. 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 over express Ang2 or to lack Ang1 or Tie-1 display similar angiogenic defects.

UniProt ID: Q02858

Gene ID: 21687

Source: CHO cells

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

Formulation: Lyophilized from PBS

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

Endotoxin Level: < 1 EU/µg

Biological Activity: Not available.

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: GAMDLILINSLPLVSDAETSLTCIASGWHPHEPITIGRDFEALMNQHQDPLEVTQDVTRE
WAKKVVWKREKASKINGAYFCEGRVRGQAIRIRTMKMRQQASFLPATLTMTVDRGDNV
NISFKKVLIKEEDAVIYKNGSFIHSVPRHEVPDILEVHLPHAQPQDAGVYSARYIGGNLFT
SAFTRLIVRRCEAQKWGPDCSRPCTTCKNNGVCHEDTGECICPPGFMGRTCEKACEP
HTFGRTCKERCSGPEGCKSYVFCLPDPYGCSCATGWRGLQCNEACPSGYYGPDCKL
RCHCTNEEICDRFQGCLCSQGWQGLQCEKEGRPRMTPQIEDLPDHIEVNSGKFNPICK
ASGWPLPTSEEMTLVKPDGTVLQPNDFNYTDRFSVAIFTVNRVLPPDSGVWVCSVNTV
AGMVEKPFNISVKVLPEPLHAPNVIDTGHNFAIINISSEPYFGDGPIKSKKLFYKPVNQAW
KYIEVTNEIFTLNYLEPRTDYELCVQLARPGEGGEGHPGPVRRFTTASIGLPPPRGLSLL
PKSQTALNLTWQPIFTNSEDEFYVEVERRSLQTTSDQQNIKVPGNLTSVLLSNLVPREQ
YTVRARVNTKAQGEWSEELRAWTLSDILPPQPENIKISNITDSTAMVSWTIVDGYSISSIII
RYKVQGKNEDQHIDVKIKNATVTQYQLKGLEPETTYHVDIFAENNIGSSNPAFSHELRTL
PHSPASADLGTRSDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDV
SHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKV
SNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWES
NGQPENNYKTTPPMLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKS
LSLSPGK

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