

32-3123: mTIE-1 Fc Recombinant Protein

Alternative Name : Tyrosine kinase with immunoglobulin-like and EGF-like domains 1,JTK14,TIE,TIE1.

Description

Source : CHO Cells. Soluble TIE-1 Mouse Recombinant fused with the Fc part of human IgG1 produced in CHO cells is a glycosylated disulfide-linked homodimeric polypeptide chain containing amino acids 23-749 and having a total molecular mass of 260kDa. The Mouse TIE-1/Fc monomer has a calculated molecular mass of approximately 105kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 130kDa protein in SDS-PAGE under reducing conditions. The TIE1 Fc Chimera is purified by proprietary chromatographic techniques. 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 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. 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.

Product Info

Amount :	10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	TIE-1 Fc Chimera was lyophilized from a concentrated (1 mg/ml) sterile solution containing 1x PBS.
Storage condition :	Lyophilized sTIE-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TIE-1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Application Note

It is recommended to reconstitute the lyophilized TIE-1 Fc Chimera in sterile water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.