11 Park Drive, Suite 12
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# Human TIE-1/Fc Chimera, soluble

## ORDERING INFORMATION

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| **Catalog Number:** | SFC-011 |
| **Size:** | 20ug (Range 10-100 ng/ml) |
| **Source:** | Insect cells |
| **Purity:** | > 90% |
| **Endotoxin level:** | < 0.1 ng per ug of sTIE-2/Fc |
| **Stabilizer:** | None |
| **Buffer:** | PBS pH 7.4 w/o preservative |
| **Formulation:** | Lyophilized |

***Description:***
Recombinant human soluble TIE-1 was fused with the Fc part of human IgG1. The soluble receptor protein consists of the full extracellular domain (Met1-Glu749). The recombinant mature TIE-1/Fc is a disulfide-linked homodimeric protein. Human TIE-1/Fc monomer has a calculated molecular mass of approximately 105 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 125 kDa protein in SDS-PAGE under reducing conditions.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.

***Reconstitution:***
The lyophilized sTIE-1/Fc is soluble in water and most aqueous buffers. The lyophilized sTIE-1/Fc should be reconstituted in PBS or medium to a concentration not lower than 50µg/ml.

***Stability:***
Lyophilized samples are stable for greater than six months at –20 °C to –70 °C. Reconstituted sTIE-1/Fc should be stored in working aliquots at -20 °C. **Avoid repeated freeze-thaw cycles!**

*Optimal dilutions should be determined by each laboratory for each application.*

The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users!

**This product is sold for Research Use Only !**

Contact & Ordering Information: Angio-Proteomie, 11 Park Drive, Suite 12, Boston, MA 02215, USA. Tel: 617-549-2665; Fax: (480) 247-4337, angioproteomie@gmail.com