11 Park Drive, Suite 12
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Human TIE-2/Fc Chimera, Soluble

ORDERING INFORMATION

Catalog Number:	SFC-031
Size:	20ug (Range 10-100 ng/ml)
Source:	CHO 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 murine soluble TIE-1 was fused with the Fc part of human IgG1. The recombinant mature sTIE-1/hFc is a disulfide-linked homodimeric protein. The sTIE-1/hFc monomers have a mass of approximately 105 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 130 kDa protein in SDS-PAGE under reducing conditions. 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. Murine 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.

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