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## Product Data Sheet

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Product Name: TIE1 Fc Mouse  
 Cat. No.: GP22640  
 Batch No.: 1

### Product Data

Purity	>98%	Source	CHO Cells.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Tyrosine kinase with immunoglobulin-like and EGF-like domains 1; JTK14; TIE; TIE1.		
Solubility	It is recommended to reconstitute the lyophilized TIE-1 Fc Chimera in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	TIE-1 Fc Chimera was lyophilized from a concentrated (1mg/ml) sterile solution containing 1x PBS.		

### Introduction

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.

### Stability

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

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.

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