Product Data Sheet

Product Name:	TIE1 Fc Human
Cat. No.:	GP22639
Batch No.:	1

Product Data

Purity	>98%	Source	Insect Cells.
Phycical 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 20mM Tris, 0.5M NaCl, 10% Sucrose.		

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

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

Background

Soluble TIE-1 Human Recombinant fused with the Fc part of human IgG1 produced in baculovirus is a homodimeric, glycosylated, polypeptide containing 749 amino acids and having a total molecular mass of 250 kDa. 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.The TIE1 Fc Chimera is purified by proprietary chromatographic techniques.

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