Product Data Sheet

Product Name:	TEK Mouse Fc
Cat. No.:	GP22635
Batch No.:	1

Product Data

Purity	>98%	Source	CHO Cells.
Phycical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Angiopoietin-1 receptor precursor; Tyrosine-protein kinase receptor TIE-2; hTIE2; Tyrosine-protein kinase receptor TEK; p140 TEK; Tunica interna endothelial cell kinase; CD202b; VMCM; VMCM1; TIE2.		
Solubility	It is recommended to reconstitute the lyophilized TIE-2 Fc Chimera in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	TEK Fc Chimera was lyophilized from a concentrated (1 mg/ml) sterile solution containing 1xPBS.		

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 1122 amino acid (aa) residue precursor protein with an 18 residue putative signal peptide, a 726 residue extracellular domain and a 353 residue cytoplasmic domain. Two ligands, angiopoietin-1 (Ang1) and angiopoietin-2 (Ang2), which bind TIE-2 with high-affinity have been identified. Ang2 has been reported to act as an antagonist for Ang1. Mice engineered to overexpress Ang2 or to lack Ang1 or Tie-1 display similar angiogenic defects.

Stability

Lyophilized sTIE-2 although stable at room temperature for 3 weeks, should be stored

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desiccated below -18°C . Upon reconstitution TEK 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.

Background

Soluble TEK Mouse Recombinant fused with the Fc part of human IgG1 produced in CHO is a glycosylated disulfide-linked homodimer, polypeptide containing amino acids 119-740 amino acids and having a total molecular mass of 280 kDa. Mouse TIE-2/Fc monomer has a calculated molecular mass of approximately 105 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 140 kDa protein in SDS-PAGE under reducing conditions.The TEK Fc Chimera is purified by proprietary chromatographic techniques.

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