Recombinant Mouse Tie1, Fc-tagged

Cat. No. Tie1-88M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Solubletyrosine kinase with immunoglobulin-like and EGF-like domains 1fused with the Fc part of human IgG1 produced in*CHO*is a monomeric, glycosylated, polypeptide containing 749 amino acids and having a total molecular mass of 260 kDa. Mouse 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 130 kDa protein in SDS-PAGE under reducing conditions. The TIE1 Fc Chimera is purified by proprietary chromatographic techniques.
Species	Mouse
Source	CHO
Description	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.

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Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	TIE-1 Fc Chimera was lyophilized from a concentrated (1 mg/ml) sterile solution containing 1x PBS.
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.
Storage	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°Cbetween 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.

GENE INFORMATION

Gene Name	Tie1 tyrosine kinase with immunoglobulin-like and EGF-like domains 1 [Mus musculus]
Synonyms	Tie1; tyrosine kinase with immunoglobulin-like and EGF-like domains 1; TIE; tie-1; D430008P04Rik
Gene ID	21846
mRNA Refseq	NM_011587
Protein Refseq	NP_035717
UniProt ID	Q06806

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Chromosome Location	4 50.0 cM
Function	ATP binding; kinase activity; nucleotide binding; protein kinase activity; protein tyrosine kinase activity; receptor activity; transferase activity; transmembrane receptor protein tyrosine kinase activity

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