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Product datasheet for TP727920

TEK Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Tie-2 (C-Fc)
Species:	Human
Expression cDNA Clone or AA Sequence:	Ala23-Lys745
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS,pH7.4.
Note:	Recombinant Human Tie-2 is produced by our Mammalian expression system and the target gene encoding Ala23-Leu748 is expressed with a Fc tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
RefSeq:	NP_000450.2
Synonyms:	angiopoietin-1 receptor; CD202b antigen; CD202b; EC 2.7.10; EC 2.7.10.1; hTIE2; p140 TEK; soluble TIE2 variant 1; soluble TIE2 variant 2; TEK tyrosine kinase, endothelial; TEK; Tie2; Tie-2; VMCM; VMCM1
Summary:	Tie-1/Tie (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-2 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. Two ligands, angiopoietin-1 (Ang-1) and angiopoietin-2 (Ang-2), which bind Tie-2 with high-affinity have been identified. Ang-2 has been reported to act as an antagonist for Ang-1. Mice engineered to overexpress Ang-2 or to lack Ang-1 or Tie-2 display similar angiogenesis defects.

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