
Product Data Sheet

Product Name: TEK Human

Cat. No.: GP22632

Batch No.: 1

Product Data

Purity >98% Source Sf9,Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms TEK Receptor Tyrosine Kinase; Tyrosine Kinase With Ig And EGF Homology Domains-2; Tunica Interna Endothelial Cell Kinase; Tyrosine-Protein Kinase Receptor TIE-2; Tyrosine-Protein Kinase Receptor TEK; TEK Tyrosine Kinase; Endothelial; Endothelial Tyrosine Kinase; EC 2.7.10.1; VMCM1; VMCM; TIE2; Venous Malformations; Multiple Cutaneous And Mucosal; Angiopoietin-1 Receptor; CD202b Antigen; EC 2.7.10; P140 TEK; CD202B; GLC3E; TIE-2; HTIE2.

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

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Amino Acid Sequence

AMDLILINSL PLVSDAETSL TCIASGWRPH EPITIGRDFE ALMNQHQPDL
 EVTQDVTREW AKKVVWKREK ASKINGAYFC EGRVVRGEAIR IRTMKMRQQA
 SFLPATLTMT VDKGDNVNIS FKKVLIKEED AVIYKNGSFI HSVPRHEVPD
 ILEVHLPFAQ PQDAGVYSAR YIGGNLFTSAFTRLIVRRCE AQKWGPECNH
 LCTACMNGV CHEDTGECIC PPGFMGRTCE KACELHTFGR TCKERCSGQE
 GCKSYVFCLP DPYGCSCATG WKGLQCNEAC HPGFYGPDCK LRCSCNNGEM
 CDRFQGCLCS PGWQGLQCER EGIPRMTPKI VDLDPDHIEVN SGKFNPICKA
 SGWPLPTNEEMTLVKPDGTV LHPKDFNHTD HFSVAIFTIH RILPPDSGVW
 VCSVNTVAGM VEKPFNISVK VLPKPLNAPN VIDTGHNFAV INISSEPYFG
 DGPIKSKLL YKPVNHYEAW QHIQVTNEIV TLNYLEPRTE YELCVQLVRR
 GEGGEGHPGP VRRFTTASIG LPPRGLNLL PKSQTTLNLTWQPIFPSSD
 DFYVEVERRS VQKSDQQNIK VPGNLTSLVLL NNLHPREQYV VRARVNTKAQ
 GEWSEDLTAW TSLDILPPQP ENIKISNITH SSAVISWTIL DGYSISSITI
 RYKVQGNED QHVDVKIKNA TITQYQLKGL EPETAYQVDI FAENNIGSSN
 PAFSHELVTI PESQAPADLGGGKMLLLEPK SCDKTHTCPP CPAPELLGGP
 SVFLFPPKPK DTLMISRTPE VTCVVVDVSH EDPEVKFNWY VDGVEVHNAK
 TKPREEQYNS TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL PAPIEKTISK
 AKGQPREPQV YTLPPSRDEL TKNQVSLTCL VKGFYPSDIA
 VEWESNGQPENNYKTTTPVL DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM
 HEALTHNHYTQ KSLSLSPGKH HHHHH.

Formulation

TEK protein solution (0.5mg/ml) contains 10% glycerol & Phosphate Buffered Saline (pH 7.4).

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

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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

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TEK produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 965 amino acids (23-748 a.a.) and having a molecular mass of 107.9kDa. (Molecular size on SDS-PAGE will appear at approximately 100-150 kDa). TEK is expressed with a 239 amino acid hlgG-His-tag at C-Terminus and purified by proprietary chromatographic techniques.

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