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Datasheet for ABIN1589752

TEK Protein (glycosylated, Monomer, Soluble) (His tag)

Overview

Quantity:	10 µg
Target:	TEK
Protein Characteristics:	Monomer, glycosylated, Soluble
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TEK protein is labelled with His tag.

Product Details

Purpose:	TIE-2, soluble
Sequence:	AMDILILINSL PLVSDAETSL TCIASGWRPH EPITIGRDFE ALMNQHQPDL EVTQDVTREW AKKVWVKREK ASKINGAYFC EGRVRGEAIR IRTMKMRQQA SFLPATLTMT VDKGDNVNIS FKKVLKEED AVIYKNGSFI HSVPRHEVPD ILEVHLPHAQ PQDAGVYSAR YIGGNLFTSA FTRLIVRRCE AQKWGPECNH LCTACMNGV CHEDTGECIC PPGFMGRTCE KACELHTFGR TCKERCSEQE GCKSYVFCPL DPYGCSCATG WKGLQCNEAC HPGFYGPDCK LRCSCNNGEM CDRFQGLCS PGWQGLQ CER EGIPRMTPKI VDLPDHIEVN SGKFNPICKA SGWPLPTNEE MTLVKPDGTV LHPKDFNHTD HFSVAIFTIH RILPPDSGVW VCSVNTVAGM VEKPFNISVK VLPKPLNAPN VIDTGHNFV INISSEPYFG DGPIKSKLL YKPVNHYEAW QHIQVTNEIV TLNYLEPRTE YELCVQLVRR GEGGEGHPGP VRRFTTASIG LPPRGLNLL PKSQTTLNLT WQPIFPSSD DFYVEVERRS VQKSDQQNIK VPGNLTSVLL NNLHPREQYV VRARVNTKAQ GEWSEDLTAW TLSDILPPQP ENIKISNITH SSAVISWTIL DGYSISSITI RYKVQGKNED

Product Details

QHVDVKIKNA TIIQYQLKGL EPETAYQVDI FAENNIGSSN PAFSHELVTL PESQAPADLG
GGKTRHHHHH H

Specificity: Chromosomal location:9p21

Characteristics: Length (aa):731

Purity: > 95 % by SDS-PAGE

Target Details

Target: TEK

Alternative Name: TIE-2 ([TEK Products](#))

Background: Recombinant human soluble TIE-2/TEK was fused with a 6x His-tag at the C-terminus. The soluble receptor protein consists of the full extracellular domain (Thr19-Lys745). 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-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 (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-2 display similar angiogenic defects.

Synonyms: EGFR, ERBB, HER1, mENA, ERBB1, PIG61

Molecular Weight: 95.0 kDa

Gene ID: 7010

NCBI Accession: [NM_000459](#), [NP_000450](#)

UniProt: [Q02763](#)

Pathways: [RTK Signaling](#), [Growth Factor Binding](#)

Application Details

Application Notes: Measured by its ability to bind to immobilized recombinant Ang-2 in a functional ELISA.

Comment: Soluble Receptors

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge vial prior to opening. The lyophilized sTIE-2-His is soluble in water and most aqueous buffers and should be reconstituted in PBS or medium to a concentration not lower than 50 μ g/mL.

Buffer: PBS

Storage: -20 °C, -80 °C

Storage Comment: Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted sTIE-2-His should be stored in working aliquots at -20°C.

Expiry Date: 6 months
