

Human Tie2 / CD202b / TEK Protein (His & GST Tag)

Catalog Number: 10700-H20B1



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

CD202B; TIE-2; TIE2; VMCM; VMCM1

Protein Construction:

A DNA sequence encoding the human TEK (NP_000450) (Gln771-Ala1124) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 92 % as determined by SDS-PAGE

Bio Activity:

1. No Kinase Activity 2. Measured by its binding ability in a functional ELISA. Immobilized human TEK (aa 771-1124) (Cat: 10700-H20B1) at 2 µg/ml (100 µl/well) can bind human Ang2-Fc (Cat: 10691-H02H) with a linear range of 0.31-20 µg/ml.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human TEK /GST chimera consists of 591 amino acids and has a calculated molecular mass of 68.3 kDa. The recombinant protein migrates as an approximately 64 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% gly

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

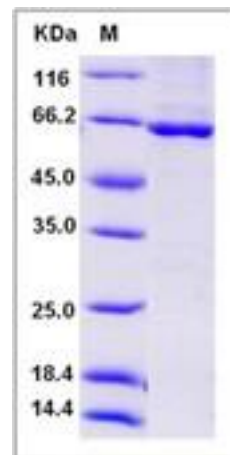
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

TEK, or TIE-2, is an endothelial cell-specific receptor tyrosine kinase (RTK) that is known as a functioning molecule of vascular endothelial cells. TEK comprises a subfamily of RTK with TIE, and these two receptors play critical roles in vascular maturation, maintenance of integrity and remodeling. Targeted mutagenesis of both Tek and its agonistic ligand, Angiopoietin-1, result in embryonic lethality, demonstrating that the signal transduction pathways mediated by this receptor are crucial for normal embryonic development. TEK signaling is indispensable for the development of the embryonic vasculature and suggests that TEK signaling may also be required for the development of the tumor vasculature.

References

1. Jones N, *et al.* (1998) The Tek / Tie2 receptor signals through a novel Dok-related docking protein, Dok-R. *Oncogene*. 17(9): 1097-108. 2. Sato A, *et al.* (1998) Characterization of TEK receptor tyrosine kinase and its ligands, Angiopoietins, in human hematopoietic progenitor cells. *Int Immunol*. 10(8): 1217-27. 3. Huang L, *et al.* (1995) GRB2 and SH-PTP2: potentially important endothelial signaling molecules downstream of the TEK / TIE2 receptor tyrosine kinase. *Oncogene*. 11(10): 2097-103.

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