

Cynomolgus Tie2 / TEK Protein (Fc Tag)

Catalog Number: 90292-C02H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

CD202B; TIE-2; TIE2; VMCM; VMCM1; AA517024; Cd202b; Hyk; STK1; Tie-2; Tie2

Protein Construction:

A DNA sequence encoding the cynomolgus TEK (G7PS68) (Met1-Lys745) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: Cynomolgus

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:

Measured by its binding ability in a functional ELISA. Immobilized mouse S1h-3C-mANGPT2 (Cat:50298-M07H) at 10 µg/ml (100 µl/well) can bind Cynomolgus TEK-Fc, The EC₅₀ of Cynomolgus TEK-Fc is 0.7-1.64 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: Ala 23

Molecular Mass:

The recombinant cynomolgus TEK is a disulfide-linked homodimer. The reduced monomer comprises 964 amino acids and has a calculated molecular mass of 107.6 KDa. The apparent molecular mass of the protein is approximately 63 KDa respectively in SDS-PAGE.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

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:

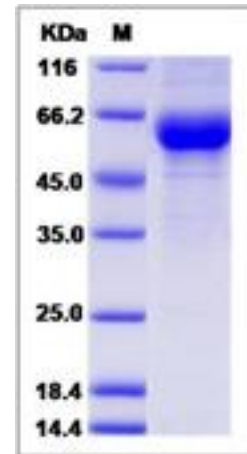
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

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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