

Bioactive

# TEK (Human) Recombinant Protein

Catalog # P6563

Size 5 ug

## Applications

### Result of activity analysis

Result of activity analysis

## Specification

<b>Product Description</b>	Human TEK (NP_000450.1, 771 a.a. - 1124 a.a.) partial recombinant protein with GST-tag at N-terminal using baculovirus expression system.
<b>Host</b>	Viruses
<b>Form</b>	Liquid
<b>Preparation Method</b>	Baculovirus expression system.
<b>Purification</b>	Glutathione sepharose chromatography.
<b>Purity</b>	0.78
<b>Activity</b>	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescently-labeled substrate and Mg (or Mn)/ATP. Substrate: Btk/Lyntide, ATP: 100 uM.
<b>Quality Control Testing</b>	The purity was assessed by SDS-PAGE/CBB staining.
<b>Storage Buffer</b>	50 mM Tris-HCl, 150 mM NaCl, 0.1% CHAPS, 1 mM DTT, 10% glycerol, pH 7.5
<b>Storage Instruction</b>	Stored at -80°C. Aliquot to avoid repeated freezing and thawing.

## Note

Result of activity analysis  
Result of activity analysis

## Applications

- Functional Study

## Gene Info — TEK

Entrez GeneID [7010](#)

Protein Accession# [NP\\_000450.1](#)

Gene Name TEK

Gene Alias CD202B, TIE-2, TIE2, VMCM, VMCM1

Gene Description TEK tyrosine kinase, endothelial

Omim ID [600195 600221](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

The TEK receptor tyrosine kinase is expressed almost exclusively in endothelial cells in mice, rats , and humans. This receptor possesses a unique extracellular domain containing 2 immunoglobulin-like loops separated by 3 epidermal growth factor-like repeats that are connected to 3 fibronectin type III-like repeats. The ligand for the receptor is angiopoietin-1. Defects in TEK are associated with inherited venous malformations; the TEK signaling pathway appears to be critical for endothelial cell-smooth muscle cell communication in venous morphogenesis. TEK is closely related to the TIE receptor tyrosine kinase. [provided by RefSeq]

**Other Designations** OTTHUMP00000021167|soluble TIE2 variant 1|soluble TIE2 variant 2

## Disease

- [Drug Toxicity](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Kidney Failure](#)

- [Tobacco Use Disorder](#)
- [Vascular Malformations](#)