

# Recombinant Human TEK Tyrosine Kinase, Endothelial, GST-tagged, Active

Cat. No. TEK-445H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human TIE 2 (771-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW = 61 kDa.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Protein Length</b>	771-end a.a.
<b>Description</b>	TIE 2 or TEK is a receptor tyrosine kinase that is expressed principally on vascular endothelium. Disrupting TIE 2 function in mice results in embryonic lethality with defects in embryonic vasculature, suggesting a role in blood vessel maturation and maintenance. Angiopoietin-1 is a secreted growth factor that binds to and activates the TIE 2 receptor tyrosine kinase. SHP2 and GRB2 are recruited to the activated TIE 2 kinase domain and are part of the cellular responses that mediate TIE 2 function. TIE 2 expression is upregulated in the endothelium of vascular "hot spots" in human breast cancer specimens. However, TIE 2 is also overexpressed in areas of active angiogenesis in normal tissues.
<b>Sequence</b>	771-end.
<b>Applications</b>	Kinase Assay, Western Blot.
<b>Storage And Stability</b>	Store product at -70°C. For optimal storage, aliquot target into smaller quantities

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after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	TEK TEK tyrosine kinase, endothelial [ Homo sapiens ]
<b>Synonyms</b>	TEK; TEK tyrosine kinase, endothelial; TIE2; VMCM; TIE-2; VMCM1; CD202B; soluble TIE2 variant 1; soluble TIE2 variant 2; p140 TEK
<b>Gene ID</b>	7010
<b>mRNA Refseq</b>	NM_000459
<b>Protein Refseq</b>	NP_000450
<b>MIM</b>	600221
<b>UniProt ID</b>	Q02763
<b>Chromosome Location</b>	9p21
<b>Pathway</b>	Hemostasis; Signaling in Immune system
<b>Function</b>	ATP binding; nucleotide binding; protein binding; receptor activity; transferase activity; transmembrane receptor protein tyrosine kinase activity

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