Active Recombinant Human TEK protein (Y897H R915C), GST-tagged

Cat. No. TEK-41H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TIE2 (Y897H R915C) (771-end) fused with GST tag at N-terminal was expressed in Sf9 insect cells.
Species	Human
Source	Insect Cells
ProteinLength	771-end a.a.
Description	TIE2 or TEK is a receptor tyrosine kinase that is expressed principally on vascular endothelium. Disrupting TIE2 function in mice results in embryonic lethality with defects in embryonic vasculature, suggests a role in blood vessel maturation and maintenance. Angiopoietin-1 is a secreted growth factor that binds to and activates the TIE2 receptor tyrosine kinase. SHP2 and GRB2 are recruited to the activated TIE 2 kinase domain and are part of the cellular responses that mediate TIE2 function. TIE2 expression is upregulated in the endothelium of vascular "hot spots" in human breast cancer specimens. However, TIE2 is also overexpressed in areas of active angiogenesis in normal tissues.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	The specific activity was determined to be 22 nmol/min/mg.

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Molecular Mass	~65 kDa
Purity	>90% by densitometry
Applications	Kinase Assay
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 ug/ul

GENE INFORMATION

Gene Name	TEK TEK tyrosine kinase, endothelial [Homo sapiens]
Official Symbol	TEK
Synonyms	TEK; CD202b; TIE 2; TIE2; VMCM1; hTIE2; p140 TEK; VMCM; TIE-2; CD202B;
Gene ID	7010
mRNA Refseq	NM_000459
Protein Refseq	NP_000450
MIM	600221
UniProt ID	Q02763
Chromosome Location	9p21

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Pathway	Angiogenesis, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis, organism-specific biosystem; Rheumatoid arthritis, organism-specific biosystem; Rheumatoid arthritis, conserved biosystem; Tie2 Signaling, organism-specific biosystem;
Function	ATP binding; nucleotide binding; protein binding; protein kinase activity; protein tyrosine kinase activity; protein tyrosine kinase activity; receptor activity; transmembrane receptor protein tyrosine kinase activity;

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