Recombinant Human TEK protein, His & T7-tagged

Cat. No. TEK-535H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TEK aa. (Met1~Met116 (Accession # Q02763)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Met116
Description	This gene encodes a receptor that belongs to the protein tyrosine kinase Tie2 family. The encoded protein possesses a unique extracellular region that contains two immunoglobulin-like domains, three epidermal growth factor (EGF)-like domains and three fibronectin type III repeats. The ligand angiopoietin-1 binds to this receptor and mediates a signaling pathway that functions in embryonic vascular development. Mutations in this gene are associated with inherited venous malformations of the skin and mucous membranes. Alternative splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.7kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)

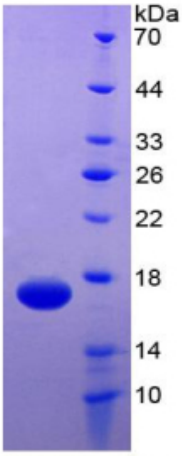
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>95%
Characteristic	The isoelectric point is 6.8.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4

GENE INFORMATION

Gene Name	TEK TEK receptor tyrosine kinase [Homo sapiens (human)]
Official Symbol	TEK
Synonyms	TEK; TEK receptor tyrosine kinase; TIE2; VMCM; GLC3E; TIE-2; VMCM1; CD202B; angiopoietin-1 receptor; TEK tyrosine kinase, endothelial; endothelial tyrosine kinase; tunica interna endothelial cell kinase; tyrosine kinase with Ig and EGF homology domains-2; tyrosine-protein kinase receptor TEK; tyrosine-protein kinase receptor TIE-2
Gene ID	7010

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mRNA Refseq	NM_000459.4
Protein Refseq	NP_000450.2
UniProt ID	Q02763
SDS-PAGE	 15% SDS-PAGE

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