

Active Recombinant Human TEK Protein, hIgG/His-tagged

Cat. No. TEK-008H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TEK Protein (23-748aa) with hIgG/His tag was expressed in insect cells.
Species	Human
Source	Insect Cells
ProteinLength	23-748aa
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	Liquid
Bio-activity	Measured by the ability of the binding activity in a functional ELISA. The ED50 range ≤ 1 μ g/ml.
Molecular Mass	107.9 kDa (965aa)

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AA Sequence

AMDLILINSLPLVSDAETSLTCIASGWRPHEPITIGRDFEALMNQHQPDPLEVTQDVTR
 EWAKKVVWKREKASKINGAYFCEGRVVRGEAIRIRTMKMRQQASFLPATLTMTVDKG
 DNVNISFKKVLKEEDAVIYKNGSFIHSVPRHEVPDILEVHLPHAQPDAGVYSARYIG
 GNLFTSAFTRLIVRRCEAQKWGPECNHLCTACMNNGVCHEDTGECICPPGFMGRT
 CEKACELHTFGRTCKERCSGQEGCKSYVFCLPDPYGCSCATGWKGLQCNEACHP
 GFYGPDCKLRCSCNNGEMCDRFQGCLCSPGWQGLQCEREGIPRMTPKIVDLPDHI
 EVNSGKFNPICKASGWPLPTNEEMTLVKPDGTVLHPKDFNHTDHFSVAIFTIHRILPP
 DSGVWVCSVNTVAGMVEKPFNISVKVLPKPLNAPNVIDTGHNFAVINISSEPYFGDG
 PIKSKLLYKPVNHYEAWQHIQVTNEIVTLNYLEPRTEYELCVQLVRRGEGGEGHPG
 PVRRTTASIGLPPPRGLNLLPKSQTTNLNLTWQPIFPSSEDDFYVEVERRSVQKSDQ
 QNIKVPGNLTSVLLNNLHPREQYVVRARVNTKAQGEWSEDLTAWTLSDILPPQPENI
 KISNITHSSAVISWTILDGYSISSITIRYKVQGKNEDQHVDVKIKNATITQYQLKGLEPE
 TAYQVDIFAENNIGSSNPAFSHELVTLPESQAPADLGGGKMLL

Endotoxin

< 1 EU per 1 g of protein (determined by LAL method)

Purity

> 90% by SDS-PAGE

Applications

SDS-PAGE, Bioactivity

Storage

Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

Concentration

0.5 mg/mL (determined by Bradford assay)

Storage Buffer

In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

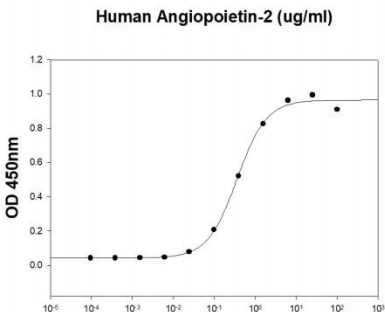
GENE INFORMATION
Gene Name

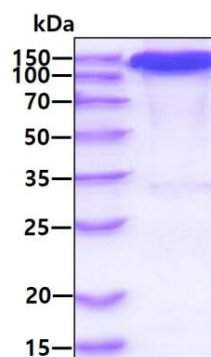
TEK TEK receptor tyrosine kinase [Homo sapiens (human)]

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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; EC 2.7.10.1
Gene ID	7010
mRNA Refseq	NM_000459
Protein Refseq	NP_000450
MIM	600221
UniProt ID	Q02763
Biological Activity	 Human Angiopoietin-2 is coated at 5 μg/ml (100 μl/well) can bind Human Tie-2. The ED50 range $\leq$ 1 μg/ml.

SDS-PAGE

3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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