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 μg/ml.
Molecular Mass	107.9 kDa (965aa)

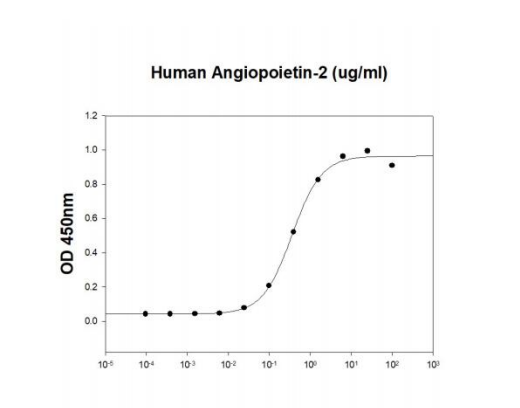
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	AMDLILINSLPLVSDAETSLTCIASGWRPHEPITIGRDFEALMNQHQDPLEVTQDVTR EWAKKVVWKREKASKINGAYFCEGRVRGEAIRIRTMKMRQQASFLPATLTMTVDKG DNVNISFKKVLIKEEDAVIYKNGSFIHSVPRHEVPDILEVHLPHAQPQDAGVYSARYIG GNLFTSAFTRLIVRRCEAQKWGPECNHLCTACMNNGVCHEDTGECICPPGFMGRT CEKACELHTFGRTCKERCSGQEGCKSYVFCLPDPYGCSCATGWKGLQCNEACHP GFYGPDCKLRCSCNNGEMCDRFQGCLCSPGWQGLQCEREGIPRMTPKIVDLPDHI EVNSGKFNPICKASGWPLPTNEEMTLVKPDGTVLHPKDFNHTDHFSVAIFTIHRILPP DSGVWVCSVNTVAGMVEKPFNISVKVLPKPLNAPNVIDTGHNFAVINISSEPYFGDG PIKSKKLLYKPVNHYEAWQHIQVTNEIVTLNYLEPRTEYELCVQLVRRGEGGEGHPG PVRRFTTASIGLPPPRGLNLLPKSQTTLNLTWQPIFPSSEDDFYVEVERRSVQKSDQ QNIKVPGNLTSVLLNNLHPREQYVVRARVNTKAQGEWSEDLTAWTLSDILPPQPENI KISNITHSSAVISWTILDGYSISSITIRYKVQGKNEDQHVDVKIKNATITQYQLKGLEPE TAYQVDIFAENNIGSSNPAFSHELVTLPESQAPADLGGGKMLL
Endotoxin	< 1 EU per 1 ɡ 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

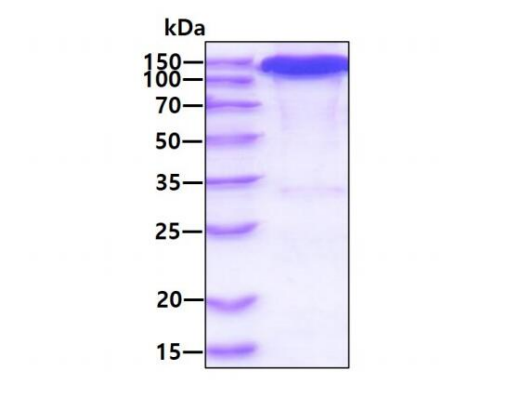
GENE INFORMATION

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

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

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 ≤1 μg/ml.

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

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

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