

Recombinant Mouse Tek protein, His-tagged

Cat. No. Tek-73M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse TEK, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
Description	TEK, also known as angiopoietin-1 receptor isoform 2, is cell-surface receptor for ANGPT1, ANGPT2 and ANGPT4. It regulates angiogenesis, endothelial cell survival, proliferation, migration, adhesion and cell spreading, reorganization of the actin cytoskeleton. This protein effects by preventing the leakage of proinflammatory plasma proteins and leukocytes from blood vessels.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	81.6kDa (730aa)70-100KDa (SDS-PAGE under reducing conditions.)
AA Sequence	<p>AMDLILINSL PLVSDAETSL TCIASGWHPH EPITIGRDFE ALMNQHQPDL EVTQDVTREW AKKVVWKREK ASKINGAYFC EGRVRGQAIR IRTMKMRQQA SFLPATLTMT VDRGDNVNIS FKKVLIKEED AVIYKNGSFI HSVPRHEVPD ILEVHLPFAQ PQDAGVYSAR YIGGNLFTSAFTRLIVRRCE AQKWGPDCSR PCTTCKNNGV CHEDTGECIC PPGFMGRTCE KACEPHTFGR TCKERCSGPE GCKSYVFCLP DPYGCSCATG WRGLQCNEAC PSGYYGPDCK LRCHCTNEEI CDRFQGCLCS QGWQGLQCEK EGRPRMTPQI EDLPDHIEVN SGKFNPICKA SGWPLPTSEEMTLVKPDGTV LQPNDFNYTD RFSVAIFTVN RVLPPDSGVW</p>

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VCSVNTVAGM VEKPFNISVK VLPEPLHAPN VIDTGHNF AI INISSEPYFG
 DGPIKSKKLF YKPVNQAWKY IEVTNEIFTL NYLEPRTDYE LCVQLARPGE
 GGEGHPGPVR RFTTASIGLP PPRGLSLLPK SQTALNLTWQPIFTNSEDEF
 YVEVERRSLQ TTSDQQNIKV PGNLTSVLLS NLVPREQYTV RARVNTKAQG
 EWSEELRAWT LSDILPPQPE NIKISNITDS TAMVSWTIVD GYSSIIIR
 YKVQGKNEQ HIDVKIKNAT VTQYQLKGLE PETTYHVDIF AENNIGSSNP
 AFSHELRTL P HSPASADLGG GKMLHHHHHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity >95% by SDS – PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name Tek endothelial-specific receptor tyrosine kinase [*Mus musculus*]

Official Symbol Tek

Synonyms TEK; endothelial-specific receptor tyrosine kinase; angiopoietin-1 receptor; STK1; mTIE2; p140 TEK; endothelial tyrosine kinase; tyrosine-protein kinase receptor TEK; tunica interna endothelial cell kinase; tyrosine-protein kinase receptor TIE-2; tyrosine kinase with Ig and EGF homology domains-2; Hyk; Tie2; tie-2; Cd202b; AA517024;

Gene ID 21687

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mRNA Refseq	NM_013690
Protein Refseq	NP_038718
MIM	
UniProt ID	
Pathway	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; growth factor binding; kinase activity; nucleotide binding; protein binding; protein kinase activity; protein tyrosine kinase activity; protein tyrosine kinase activity; receptor activity; transferase activity; transferase activity, transferr

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