

Tie-2 active protein

Recombinant human Tie-2 protein

CATALOG # AAA48363	HOST Baculovirus	APPLICATIONS SDS-Page
------------------------------	----------------------------	---------------------------------

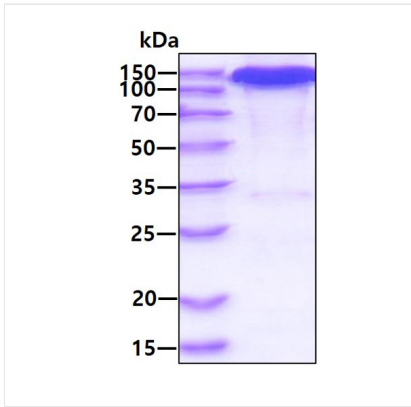
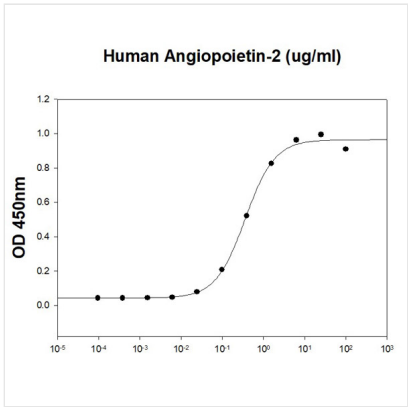
PRODUCT SYNONYMS

Tie-2; Recombinant human Tie-2 protein; Angiopoietin-1 receptor isoform 1; TEK; CD202B; GLC3E; TIE-2; TIE2; VMCM; VMCM1; ATGP3762; Tie-2 active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.5mg/ml (determined by Bradford assay) (varies by lot)
Sequence Positions	23-748aa
Sequence	AMDLILINSL PLVSDAETSL TCIASGWRPH EPITIGRDFE ALMNQHQPDL EVTQDVTREW AKKVVWKREK ASKINGAYFC EGRVRGEAIR IRTMKMRQQA SFLPATLTMT VDKGDNVNIS FKKVLIKEED AVIYKNGSFI HSVPRHEVPD ILEVHLPHAQ PQDAGVYSAR YIGGNLFTSA FTRLIVRRCE AQKWGPECNH LCTACMNNGV CHEDTGECIC PPGFMGRTCE KACELHTFGR TCKERCSGQE GCKSYVFCLP DPYGCSCATG WKGLQCNEAC HPGFYGPDCK LRCSCNNGEM CDRFQGCLCS PGWQGLQCER EGIPRMTPKI VDLPDHIEVN SGKFNPICKA SGWPLPTNEE MTLVKPDGTV LHPKDFNHTD HFSVAIFTIH RILPPDSGVW VCSVNTVAGM VEKPFNISVK VLPKPLNAPN VIDTGHNFAV INISSEPYFG DGPIKSKLL YKPVNHYEAW QHIQVTNEIV TLNLEPRTE YELCVQLVRR GEGGEGHPGP VRRFTTASIG LPPRGLNLL PKSQTTLNLT WQPIFPSSD DFYVEVERRS VQKSDQQNIK VPGNLTSVLL NNLHPREQYV VRARVNTKAQ GEWSEDLTAW TLSDLPPQP ENIKISNITH SSAVISWTIL DGYSISSITI RYKVQGNED QHVDVKIKNA TITQYQLKGL EPETAYQVDI FAENNIGSSN PAFSHELVTL PESQAPADLG GGKMLL
Applicable Applications for Tie-2 active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Human
Tag	hIgG-His-Tag
Predicted N-term	Ala23
Bioactivity	Measured by the ability of the binding activity in a functional ELISA. The ED50 range <=1ug/ml.
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity
Human Angiopoietin-2 is coated at 5 ug/ml (100 ul/well) can bind Human Tie-2. The ED50 range

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

ADDITIONAL INFORMATION

Related Product Information for Tie-2 active protein	TEK, also known as angiopoietin-1 receptor isoform 1, is an endothelial cell-specific receptor tyrosine kinase subfamily (RTK). This protein acts as cell-surface receptor and regulates angiogenesis, endothelial cell survival, proliferation, migration, adhesion and cell spreading, reorganization of the actin cytoskeleton. It has anti-inflammatory effects by preventing the leakage of proinflammatory plasma proteins and leukocytes from blood vessels and is required for normal angiogenesis and heart development during embryogenesis. Recombinant human TEK protein, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for Tie-2 active protein	Signal Transduction; Proteins
References	Kitajima D., et al, (2016) J Cancer. 7:600-607. Kelly-Goss MR., et al, (2017) Sci Rep. 7:9049.

NCBI AND UNIPROT INFORMATION

NCBI GI #	88758596
NCBI GeneID	7010
NCBI Accession #	NP_000450
NCBI GenBank Nucleotide #	NM_000459.4
UniProt Accession #	Q02763; Q5TCU2; Q8IV34; A8K6W0; B4DH20; B4DHD3; D3DRK5; E7EWI2
Molecular Weight	107.9kDa (965aa) 100-150KDa (SDS-PAGE under reducing conditions.)
NCBI Official Full Name	angiopoietin-1 receptor isoform 1
NCBI Official Synonym Full Names	TEK receptor tyrosine kinase
NCBI Official Symbol	TEK
NCBI Official Synonym Symbols	TIE2; VMCM; GLC3E; TIE-2; VMCM1; CD202B
NCBI Protein Information	angiopoietin-1 receptor
UniProt Protein Name	Angiopoietin-1 receptor
UniProt Gene Name	TEK
UniProt Synonym Gene Names	TIE2; VMCM; VMCM1; hTIE2
UniProt Entry Name	TIE2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/baculovirus-active-protein/tie-2/48363>