

Recombinant human TIE2/TEK protein

Catalog Number: ATGP3947

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

23-748aa

UniProt No.

Q02763

NCBI Accession No.

NP_000450

Alternative Names

TEK, TEK receptor tyrosine kinase, VMCM, venous malformations, multiple cutaneous and mucosal, TEK tyrosine kinase, endothelial, TIE2, TIE-2, VMCM1, CD202b, angiopoietin-1 receptor, Hyk, AA517024, STK1, p140 TEK

Additional Information

ATGP3762 has been replaced with a catalog number ATGP3947.

PRODUCT SPECIFICATION

Molecular Weight

107.9 kDa (965aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

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

Biological Activity

Measured by its binding ability in a functional ELISA with Human Angiopoietin-2 (CAT# ATGP3853). The ED50 range \leq 1 ug/ml.

Tag

hIgG-His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

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

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BACKGROUND

Description

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 hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

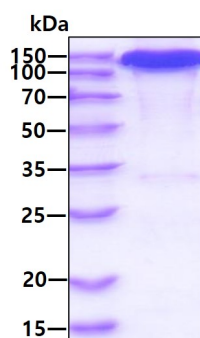
AMDLILINSL PLVSDAETSL TCIASGWRPH EPITIGRDFE ALMNQHQPDL EVTQDVTREW AKKVWVKREK ASKINGAYFC EGRVRGEAIR IRTMKMRQQA SFLPATLTMT VDKGDVNVIS FKKVLIKEED AVIYKNGSFI HSVPRHEVPD ILEVHLPFAQ PQDAGVYSAR YIGGNLFTSA FTRLIVRRC E A QKWGPECNH LCTACMNGV CHEDTGECIC PPGFMGRTCE KACELHTFGR TCKERCSGQE GCKSYVFLCP DPYGCSCATG WKGLQCNEAC HPGFYGPDCK LRCSCNNGEM CDRFQGCLCS PGWQGLQCER EGIPRMTPKI VDLPDHIEVN SGKFNPKCA SGWPLPTNEE MTLVKPDGTV LHPKDFNHTD HFSVAIFTIH RILPPDSGVW VCSVNTVAGM VEKPFNISVK VLPKPLNAPN VIDTGHNFV INISSEPYFG DGPIKSKLL YKPVNHYEAW QHIQVTNEIV TLNYLEPRTE YELCVQLVRR GEGGEGHPGP VRRFTTASIG LPPRGLNLL PKSQTTLNLT WQPIFPSSD DFYVEVERRS VQKSDQQNIK VPGNLTSVLL NNLHPREQYV VRARVNTKAQ GEWSEDLTAW TLSDILPPQP ENIKISNITH SSAVISWTIL DGYSISSITI RYKVQGKNE D QHVDVKIKNA TITQYQLKGL EPETAYQVDI FAENNIGSSN PAFSHELVTL PESQAPADLG GGKMLL<LEPK SCDKTHTCP CPAPELLGGP SVFLFPPKPK DTLMISRTPE VTCVVVDVSH EDPEVKFNWY VDGVEVHNAK TKPREEQYNS TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL PAPIEKTISK AKGQPREPQV YTLPPSRDEL TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTTTPVL DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM HEALHNHYTQ KSLSLSPGKH HHHHH>

General References

Kitajima D., et al, (2016) J Cancer. 7:600-607.
 Kelly-Goss MR., et al, (2017) Sci Rep. 7:9049.

DATA

SDS-PAGE



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

Biological Activity

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Human Angiopoietin-2 (CAT# ATGP3853) is coated at 5 ug/ml (100 ul/well) can bind Human TIE-2. The ED50 range ≤ 1 ug/ml.

