

Recombinant human TIE1 protein

Catalog Number: ATGP4062

PRODUCT INFORMATION

Expression system

HEK293

Domain

22-759aa

UniProt No.

P35590

NCBI Accession No.

NP_005415.1

Alternative Names

Tyrosine-protein kinase receptor Tie-1 isoform 1, tyrosine kinase with immunoglobulin like and EGF like domains 1, JTK14, TIE, TIE1, LMPHM11

PRODUCT SPECIFICATION

Molecular Weight

106.8kDa (977aa)

Concentration

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

Formulation

Liquid. In 20mM Tris-HCl (pH 8.0) containing 0.1M NaCl, 50% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

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

Tag

hIgG-His-Tag

Application

SDS-PAGE

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.

BACKGROUND

Description

Tie-1, as known as tyrosine kinase with immunoglobulin like and EGF like domains 1, is an angiopoietin receptor. It is expressed primarily on endothelial and hematopoietic progenitor cells and play critical roles in angiogenesis, vasculogenesis and hematopoiesis. However it has also been shown to be expressed in immature hematopoietic

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cells and platelets. It upregulates the cell adhesion molecules(CAMs) VCAM-1, E-selectin, and ICAM-1 through a p38-dependent mechanism. Also, It has a proinflammatory effect and may play a role in the endothelial inflammatory diseases such as atherosclerosis. Recombinant human Tie-1, fused to hIgG-His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

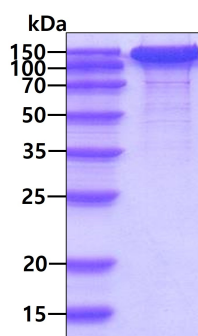
AVDLTLLANL RLTDPRFFL TCVSGEAGAG RGSDAWGPPL LLEKDDRIVR TPPGPPLRLA RNGSHQVTLR GFSKPSDLVG
VFSCVGGAGA RRTRVIYVHN SPGAHLLPDK VTHTVNKGD AVLSARVHKE KQTDVIWKS GSYFYTLDDWH EAQDGRFLLQ
LPNVQPPSSG IYSATYLEAS PLGSAFFRLI VRGCGAGRWG PGCTKECPGC LHGGVCHDHD GECVCPGFT GTRCEQACRE
GRFGQSCQEQ CPGISGCRGL TFCLDPYGC SCGSGWRGSQ CQEACAPGHF GADCRLQCQC QNGGTCDFRS
GCVCPSGWHG VHCEKSDRIP QILNMASELE FNLETMPRI CAAAGNPFV RGSIELRKP GTVLLSTKAI VEPEKTTAEF
EVPRLVLADS GFWECDVST GQDSRRFKV NVKVPPVPLA APRLLTKQR QLVVSPVLSF SGDGPSTVR LHYRPQDSTM
DWSTIVVDPS ENVTLMNLRP KTGYSVRVQL SRPGEGGEGA WGPPTLMTD CPELLQPLW EGWHVEGTDR LRVSWSLPLV
PGPLVGDGFL LRLWDGTRGQ ERRENVSPQ ARTALLTGLT PGTHYQLDVQ LYHCTLLGPA SPPAHVLLPP SGPPAPRHLH
AQALSDSEIQ LTWKHPEALP GPISKYVVEV QVAGGAGDPL WIDVDRPEET STIRGLNAS TRYLFMRMRAS IQGLGDWSNT
VEESTLGNGL QAEGPVQESR AAEEGLDQ<LE PKSCDKTHTC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV
SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP
QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTTP VLDSGDSFLL YSKLTVDKSR WQQGNVFSCS
VMHEALHNHY TQKSLSLSPG KHHHHHH>

General References

- Marron MB., et al, (2000) Adv Exp Med Biol. 476:35-46.
Li K., et al, (2010) Blood. 115:133-139.
Zhang X., et al, (2020) Cancers. 12:1705.
Carlanton C., et al, (2021) Dev Biol. 469:54-67.

DATA

SDS-PAGE



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