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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 angiopoitein 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

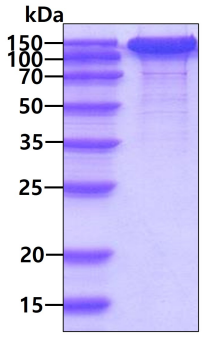
AVDLTLLANL RLTDPQRFFL TCVSGEAGAG RGSDAWGPPL LLEKDDRIVR TPPGPPLRLA RNGSHQVTLR GFSKPSDLVG VFSCVGGAGA RRTRVIYVHN SPGAHLLPDK VTHTVNKGDT AVLSARVHKE KQTDVIWKSN GSYFYTLDWH EAQDGRFLLQ LPNVQPPSSG IYSATYLEAS PLGSAFFRLI VRGCGAGRWG PGCTKECPGC LHGGVCHDHD GECVCPPGFT GTRCEQACRE GRFGQSCQEQ CPGISGCRGL TFCLPDPYGC SCGSGWRGSQ CQEACAPGHF GADCRLQCQC QNGGTCDRFS GCVCPSGWHG VHCEKSDRIP QILNMASELE FNLETMPRIN CAAAGNPFPV RGSIELRKPD GTVLLSTKAI VEPEKTTAEF EVPRLVLADS GFWECRVSTS GGQDSRRFKV NVKVPPVPLA APRLLTKQSR QLVVSPLVSF SGDGPISTVR LHYRPQDSTM DWSTIVVDPS ENVTLMNLRP KTGYSVRVQL SRPGEGGEGA WGPPTLMTTD CPEPLLQPWL EGWHVEGTDR LRVSWSLPLV PGPLVGDGFL LRLWDGTRGQ ERRENVSSPQ ARTALLTGLT PGTHYQLDVQ LYHCTLLGPA SPPAHVLLPP SGPPAPRHLH AQALSDSEIQ LTWKHPEALP GPISKYVVEV QVAGGAGDPL WIDVDRPEET STIIRGLNAS TRYLFRMRAS IQGLGDWSNT VEESTLGNGL QAEGPVQESR AAEEGLDQ<LE PKSCDKTHTC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTPP VLDSDGSFFL 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.
Carlantoni 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