ACTIVE BIOSCIENCE
PROTEINS · CELLS · ANTIBODIES

Murine TIE-1 soluble / FC Chimera (CHO)

Synonyms: Tie1, TIE, tie-1, D430008P04Rik

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
20 µg	1950.964.020		
100 µg	1950.964.100		

Please enquire for bulk quantities and other vial sizes

Description

Recombinant murine soluble TIE-1 was fused with the Fc part of human IgG1. The recombinant mature sTIE-1/hFc is a disulfide-linked homodimeric protein. The sTIE-1/hFc monomers have a mass of approximately 105 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 130 kDa protein in SDS-PAGE under reducing conditions. The soluble receptor protein consists of the full extracellular domain (Val23-Glu749). TIE-1 (tyrosine kinase with Ig and EGF homology domains 1) and TIE-2/Tek comprise a receptor tyrosine kinase (RTK) subfamily with unique structural characteristics: two immunoglobulin-like domains flanking three epidermal growth factor (EGF)-like domains and followed by three fibronectin type III-like repeats in the extracellular region and a split tyrosine kinase domain in the cytoplasmic region. These receptors are expressed primarily on endothelial and hematopoietic progenitor cells and play critical roles in angiogenesis, vasculogenesis and hematopoiesis. Murine TIE-1 cDNA encodes a 1134 amino acid (aa) residue precursor protein with an 22 residue putative signal peptide, a 733 residue extracellular domain and a 354 residue cytoplasmic domain. Whereas two ligands have been described for TIE-2 [angiopoietin-1 (Ang1) and angiopoietin-2 (Ang2)], so far no ligand was found for TIE-1.

- **Source** CHO
- **Purity** ≥ 90 % (SDS-PAGE, silver stained)

Biological Activity

Bioassay data are not available.

Reconstitution

Centrifuge vial prior to opening. The lyophilized sTIE-1-His is soluble in water and most aqueous buffers and should be reconstituted in PBS to a concentration not lower than 50µg/ml.

Amino Acid Sequence

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VDLTLLANLR ITDPQRFFLT CVSGEAGAGR SSDPPLLLEK DDRIVRTFPP GQPLYLARNG SHQVTLRGFS
KPSDLVGVFS CVGGAGARRT RVLYVHNSPG AHLFPDKVTH TVNKGDTAVL SAHVHKEKQT DVIWKNNGSY
FNTLDWQEAD DGRFQLQLQN VQPPSSGIYS ATYLEASPLG SAFFRLIVRG CGAGRWGPGC VKDCPGCLHG
GVCHDHDGEC VCPPGFTGTR CEQACREGRF GQSCQEQCPG TAGCRGLTFC LPDPYGCSCG SGWRGSQCQE
ACAPDHFGAD CRLQCQCQNG GTCDRFSGCV CPSGWHGVHC EKSDRIPQIL SMATEVEFNI GTMPRINCAA
AGNPFPVRGS MKLRKPDGTM LLSTKVIVEP DRTTAEFEVP SLTLGDSGFW ECRVSTSGGQ DSRRFKVNVK
VPPVPLTAPR LLAKQSRQLV VSPLVSFSGD GPISSVRLHY RPQDSTIAWS AIVVDPSENV TLMNLKPKTG
YNVRVQLSRP GEGGEGGWGP SALMTTDCPE PLLQPWLESW HVEGPDRLRV SWSLPSVPLS GDGFLLRLWD
GARGQERREN ISFPQARTAL LTGLTPGTHY QLDVRLYHCT LLGPASPPAH VHLPPSGPPA PRHLHAQALS
DSEIQLMWQH PEAPSGPISK YIVEIQVAGG SGDPQWMDVD RPEETSIIVR GLNASTRYLF RVRASVQGLG
DWSNTVEEAT LGNGLQSEDP VRESRAAEEG LTRSDKTHTC PPCPAPELLG GPSVFLFPPK PKDTLMISRT
PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK
ALPAPIEKTI SKAKGQPREP QVYTLPPSRE EMTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTPP
MLDSDGSFFL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY TQKSLSLSPG K
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Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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