

Datasheet for ABIN1589960

**TIE1 Protein (glycosylated, Homodimer, Soluble) (Fc Tag)**[Go to Product page](#)

## Overview

Quantity:	20 µg
Target:	TIE1
Protein Characteristics:	glycosylated, Homodimer, Soluble
Origin:	Mouse
Source:	CHO Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TIE1 protein is labelled with Fc Tag.

## Product Details

Sequence: VDLTLLANLR ITDPQRFFLT CVSGEAGAGR SSDPPLLEK DDRIVRTFPP GQPLYLARNG  
SHQVTLRGFS KPSDLVGVFS CVGGAGARRT RVLYVHNSPG AHLFPDKVTH TVNKGDTAVL  
SAHVHKEKQT DVIWKNNGSY FNTLDWQEAD DGRFQLQLQN VQPPSSGIYS ATYLEASPLG  
SAFFRLIVRG CGAGRWGPC VKDCPGCLHG GVCHDHDGEC VCPPGFTGTR CEQACREGRF  
GQSCQECPG TAGCRGLTFC LPDPYGCSCG SGWRGSQCQE ACAPDHFAD CRLQCQCQNG  
GTCDRFSGCV CPSGWHGVHC EKSDRIPQIL SMATEVEFNI GTMPRINCAA AGNPFVVRGS  
MKLRKPDGTM LLSTKVIVEP DRTTAEFEVP SLTLGDSGFW ECRVSTSGGQ DSRRFKVNVK  
VPPVPLTAPR LLAQSRQLV VSPLVSFGD GPISSVRLHY RPQDSTIAWS AIVVDPSENV  
TLMNLKPKTG YNVRVQLSRP GEGGEGGWGP SALMTTDCPE PLLQPWLESW HVEGPDRLRV  
SWSLPSVPLS GDGFLRLWD GARGQERREN ISFPQARTAL LTGLTPGTHY QLDVRLYHCT  
LLGPASPPAH VHLPPSGPPA PRHLHAQALS DSEIQLMWQH PEAPSGPISK YIVEIQVAGG  
SGDPQWMDVD RPEETSIIVR GLNASTRYLF RVRASVQGLG DWSNTVEEAT LGNGLQSEDP  
VRESRAAEEG LTRSDKTHTC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVWVDV  
SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK

## Product Details

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ALPAPIEKTI SKAKGQPREP QVYTLPPSRE EMTKNQVSLT CLVKGFYPSD IAVEWESNGQ  
PENNYKTTTP MLDSGGSFFL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY TQKSLSLSPG K

Characteristics: Length (AA): 957  
Chromosomal location: 4 D2.1, 4 50.0 cM

Purity: > 90 % by SDS-PAGE. Visualized by silver stain

## Target Details

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Target: TIE1

Alternative Name: TIE-1 ([TIE1 Products](#))

Background: 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.

Synonyms: Tie1, TIE, tie-1, D430008P04Rik

Molecular Weight: 260.0k Da

NCBI Accession: [NP\\_035717](#), [NM\\_011587](#)

UniProt: [Q06806](#)

Pathways: [RTK Signaling](#)

## Application Details

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Comment: Soluble Receptors

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: The lyophilized sTIE-1/Fc is soluble in water and most aqueous buffers and should be reconstituted in PBS or medium to a concentration not lower than 50 µg/mL.

Buffer: PBS

Storage: -20 °C/-80 °C

Storage Comment: Lyophilized samples are stable for greater than six months at -20 °C to -70 °C. Reconstituted sTIE-1/Fc should be stored in working aliquots at -20 °C.

Expiry Date: 6 months