

Recombinant Human TIE1, Fc Chimera

Cat. No. TIE1-2531H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TIE1 fused to Fc Chimera, was expressed in NSO.
Species	Human
Source	Mammalian Cells
Description	Tyrosine kinase with immunoglobulin-like and EGF-like domains 1 (Tie-1) are novel endothelial cell tyrosine kinase receptors that are essential for vascular development and remodeling in the embryo. They are expressed almost exclusively in endothelial cells. Tie-1 also have a role in the regulatory pathways of early hematopoiesis and angiogenesis. It is upregulated in diseases such as atherosclerosis and rheumatoid arthritis.
Biochem/physiol Actions	Tie (tyrosine kinase with Ig and EGF homology domains) receptors Tie-1 and Tie-2 are receptor tyrosine kinase (RTK) family members with unique structural characteristics that involve their two Ig-like, three EGF-like and three fibronectin III-like motifs in the extracellular domain. They also have a split tyrosine kinase domain in the cytoplasmic region. They are expressed primarily on endothelial cells and hematopoietic progenitors. Tie-1 and Tie-2 are thought to play critical roles in angiogenesis and hematopoiesis. Tie-1 is related to endothelial cell differentiation and maintenance of endothelium integrity.
Physical Form	Lyophilized from a 0.2 µm filtered solution in phosphate buffered saline.
Assay	≥90% (SDS-PAGE).

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Form	lyophilized powder.
Total Impurities	endotoxin, tested.
Suitability	cell culture tested.
Storage Temp	-20°C.

GENE INFORMATION

Gene Name	TIE1 tyrosine kinase with immunoglobulin-like and EGF-like domains 1 [Homo sapiens]
Synonyms	TIE1; tyrosine kinase with immunoglobulin-like and EGF-like domains 1; soluble TIE1 variant 1; soluble TIE1 variant 2; soluble TIE1 variant 3; soluble TIE1 variant 4; soluble TIE1 variant 5; receptor tyrosine kinase; tyrosine kinase with immunoglobulin and epidermal growth factor homology domains 1; EC 2.7.10.1; JTK14; TIE; Tyrosine-protein kinase receptor Tie-1; OTTHUMP00000008352
Gene ID	7075
mRNA Refseq	NM_005424
Protein Refseq	NP_005415
MIM	600222
UniProt ID	P35590
Chromosome Location	1p34-p33

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Function

ATP binding; nucleotide binding; protein binding; receptor activity; transferase activity; transmembrane receptor protein tyrosine kinase activity

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