Recombinant Human TIE1, Fc-His

Cat. No. TIE1-1686H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TIE1 encoding the extracellular domain was fused to the carboxy-terminal 6X his-tagged Fc region of human IgG1, inserted into a suitable mammalian expression vector and expressed in*NSO cells.*
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.
Molecular Weight	The predicted molecular weight of Recombinant Human Tie-1 is Mr 107 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 130-140 kDa.
State Of Matter	Lyophilized.
Formulation	This recombinant protein was 0.2 μm filtered and lyophilized from a sterile solution containing 20 mM Tris, 0.5 M NaCl and 10% Sucrose.
Purity	>90% by SDS Page and analyzed by silver stain.

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Endotoxin	<1.0 EU/μg as determined by the LAL method.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20℃ to -70℃. After aseptic reconstitution, this protein may be stored at 2℃ to 8℃ for one month or at -20℃ to -70℃ in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

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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