Recombinant Human ANGPT1, FLAG-tagged

Cat. No. ANGPT1-27317TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 20-498 of Human Angiopoietin 1 with an N terminual DDDDK tag; MWt 57 kDa .
Species	Human
Source	E.coli
ProteinLength	479 amino acids
Description	Angiopoietins are proteins with important roles in vascular development and angiogenesis. All angiopoietins bind with similar affinity to an endothelial cell-specific tyrosine-protein kinase receptor. The protein encoded by this gene is a secreted glycoprotein that activates the receptor by inducing its tyrosine phosphorylation. It plays a critical role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme and inhibits endothelial permeability. The protein also contributes to blood vessel maturation and stability, and may be involved in early development of the heart. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Conjugation	FLAG
Molecular Weight	57.000kDa inclusive of tags
Biological activity	Induces phosphorylation of Tie-2 in primary cultured human vascular endothelial cells (HUVECs). Binds to Human Tie-2. The protein forms mainly tetrameric structures.

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Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 0.02% CHAPS, PBS
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	Contains 1 fibrinogen C-terminal domain.

GENE INFORMATION

Gene Name	ANGPT1 angiopoietin 1 [Homo sapiens]
Official Symbol	ANGPT1
Synonyms	ANGPT1; angiopoietin 1; angiopoietin-1; Ang1; KIAA0003;
Gene ID	284
mRNA Refseq	NM_001146
Protein Refseq	NP_001137
MIM	601667
Uniprot ID	Q15389
Chromosome Location	8q23.1

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Pathway	Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis, organism-specific biosystem; Rheumatoid arthritis, organism-specific biosystem; Rheumatoid arthritis, conserved biosystem;
Function	receptor tyrosine kinase binding;

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