

Active Recombinant Comp(Rat) and ANGPT1(Human), Flag-tagged

Cat. No. COMP-Ang1-01 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The fibrinogen-like domain (aa 284-498) of human Ang-1 (angiopoietin-1) is fused at the N-terminus to the coiled-coil domain of rat COMP (cartilage oligomeric matrix protein) and to a FLAG-tag.
Species	Human/Rat
Source	CHO
ProteinLength	284-498 a.a.
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.
Form	Liquid. 0.2µm-filtered solution in PBS containing 0.01% CHAPS.
Bio-activity	Induces phosphorylation of Tie-2 in primary cultured human and mouse vascular endothelial cells. More potent than native Ang-1.

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Endotoxin	<0.1eu g="" protein="" (lal="" test;="">
Purity	>90% by SDS-PAGE.
Storage	Stored at -20°C. Avoid freeze/thaw cycles.
Concentration	~0.3mg/ml

GENE INFORMATION

Gene Name	ANGPT1 angiotensin 1 [Homo sapiens]
Official Symbol	ANGPT1
Synonyms	ANGPT1; angiotensin 1; angiotensin-1; Ang1; KIAA0003; ANG-1; AGP1; AGPT; ANG1;
Gene ID	284
mRNA Refseq	NM_001146
Protein Refseq	NP_001137
MIM	601667
UniProt ID	Q15389
Chromosome Location	8q23.1
Pathway	Angiotensin receptor Tie2-mediated signaling, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis,

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organism-specific biosystem; Rheumatoid arthritis, organism-specific biosystem;
Rheumatoid arthritis, conserved biosystem; Tie2 Signaling, organism-specific
biosystem;

Function receptor tyrosine kinase binding;

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