

Active Recombinant Human ANGPT1 Protein

Cat. No. ANGPT1-003H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The mature recombinant human Ang-1 protein containing 479aa (S20-F498) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	20-498 a.a.
Description	This gene encodes a secreted glycoprotein that belongs to the angiopoietin family. Members of this family play 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. Mutations in this gene are associated with hereditary angioedema.
Bio-activity	Measured by its ability to inhibit serum deprivation induced apoptosis in HUVEC human umbilical vein endothelial cells. The ED50 for this effect is 10-40 ng/mL.
Molecular Mass	56 kDa

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Product-Related Proteins	20-498
Endotoxin	< 0.1 EU/μg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Storage	At -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS

GENE INFORMATION

Gene Name	ANGPT1 angiotensinogen 1 [Homo sapiens (human)]
Official Symbol	ANGPT1
Synonyms	ANGPT1; angiotensinogen 1; AGP1; AGPT; ANG1; HAE5; angiotensinogen-1; Names; ANG-1
Gene ID	284
mRNA Refseq	NM_001146
Protein Refseq	NP_001137
MIM	601667
UniProt ID	Q15389

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