

# Recombinant Human Angiogenin, Ribonuclease, RNase A Family, 5

**Cat. No.** ANG-2629H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human angiogenin is expressed in <i>E. coli</i> . Exhibits angiogenic and ribonucleolytic activities. Enhances the ability of endothelial cells to digest extracellular matrix components and degrade basement membrane. Has been shown to stimulate capillary and umbilical vein endothelial cells to produce DAG and secrete prostacyclin by phospholipase activation.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Angiogenin (Ang) is a small polypeptide that is implicated in angiogenesis (formation of new blood vessels) in tumor growth. However, angiogenin is unique among the many proteins that are involved in angiogenesis in that it is also an enzyme with an amino acid sequence 33% identical to that of bovine pancreatic ribonuclease (RNase) A. Moreover, although Ang has the same general catalytic properties as RNase A – it cleaves preferentially on the 3' side of pyrimidines and follows a transphosphorylation/hydrolysis mechanism – its activity differs markedly both in magnitude and in specificity.
<b>Form</b>	Liquid.
<b>Formulation</b>	Lyophilized from sterile-filtered PBS containing 50 µg BSA/µg Angiogenin.
<b>Molar Mass</b>	14000Da.

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<b>Purity</b>	≥95% by SDS-PAGE.
<b>Endotoxins</b>	≤100 pg/μg Angiogenin.
<b>Storage</b>	≤ -70oC. Ship: Dry Ice Only.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	ANG angiogenin, ribonuclease, RNase A family, 5 [ Homo sapiens ]
<b>Synonyms</b>	ANG; angiogenin, ribonuclease, RNase A family, 5; RNase 5; angiogenin; epididymis luminal protein 168; ribonuclease 5; ALS9; HEL168; RNASE4; RNASE5; MGC22466; MGC71966; EC 3.1.27.-
<b>Gene ID</b>	283
<b>mRNA Refseq</b>	NM_001097577
<b>Protein Refseq</b>	NP_001091046
<b>MIM</b>	105850
<b>UniProt ID</b>	P03950
<b>Chromosome Location</b>	14q11.1-q11.2
<b>Function</b>	DNA binding; actin binding; copper ion binding; endonuclease activity; heparin binding; hydrolase activity; pancreatic ribonuclease activity; ribonuclease activity

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