

Recombinant Human Angiogenin, Ribonuclease, RNase A Family, 5

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
Description	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.
Form	Liquid.
Formulation	Lyophilized from sterile-filtered PBS containing 50 µg BSA/µg Angiogenin.
Molar Mass	14000Da.

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

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