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# Recombinant human Angiogenin protein

Catalog Number: ATGP3811

#### PRODUCT INFORMATION

# **Expression system**

Baculovirus

#### **Domain**

25-147aa

#### UniProt No.

P03950

#### **NCBI Accession No.**

NP 001136

#### **Alternative Names**

Angiogenin, ANG, ALS9, HEL168, RAA1, RNASE4, RNASE5

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

15.2 kDa (132aa)ns)

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### **BACKGROUND**

#### **Description**

ANG, also known as angiogenin, is a potent stimulator of new blood vessels through the process of angiogenesis. It is a key protein implicated in angiogenesis in normal and tumor growth. This protein interacts with endothelial and smooth muscle cells resulting in cell migration, invasion, proliferation and formation of tubular structures. It binds to actin of both smooth muscle and endothelial cells to form complexes that activate proteolytic cascades



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which upregulate the production of proteases and plasmin that degrade the laminin and fibronectin layers of the basement membrane. Also, it exhibits ribonucleolytic activity that is distinctly different than that of pancreatic RNase A. This ribonucleolytic activity of ANG toward most RNase A substrates is much lower than that of RNase A. Recombinant human ANG, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

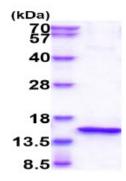
ADPQDNSRYT HFLTQHYDAK PQGRDDRYCE SIMRRRGLTS PCKDINTFIH GNKRSIKAIC ENKNGNPHRE NLRISKSSFQ VTTCKLHGGS PWPPCQYRAT AGFRNVVVAC ENGLPVHLDQ SIFRRPHHHH HH

#### **General References**

Shapiro R., et al, (1986) Biochemistry 25:3527-3532. Hooper LV., et al, (2003) Nat. Immunol. 4:269-273.

### **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

