

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 GNKRSIKAIK ENKNGNPHRE NLRISKSSFQ
VTCKLHGGG PWPPCQYRAT AGFRNVVAC ENGLPVHLDQ SIFRRPHHHH HH

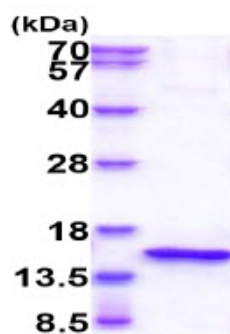
General References

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.