

Angiogenin (ANG) Active Protein | ANG active protein

Active Angiogenin (ANG)

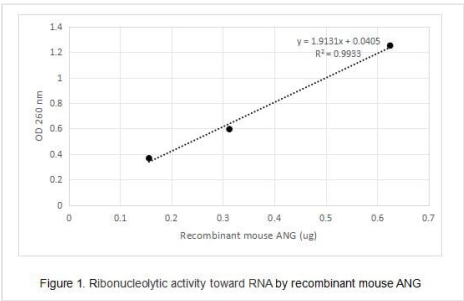
CATALOG # AAA161648	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Angiogenin (ANG); Active Angiogenin (ANG); Angiogenin; RNASE5; Ribonuclease; RNase A Family 54; ANG active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Gln25~Leu1 45
Applicable Applications for ANG active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Prokaryotic expression
Tag	N-terminal His and GST Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	9.8
Research Area	Tumor immunity
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

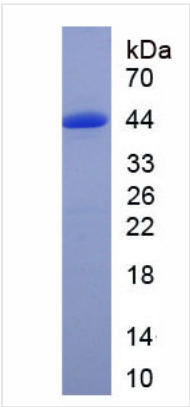


Bioactivity

Angiogenin (ANG) was initially purified from serum-free media conditioned by growth of a human adenocarcinoma cell line HT-29 based on its ability to initiate vascularization in the chicken embryo chorioallantoic membrane. A number of other tumor, as well as normal, cell lines can also secrete Angiogenin. In addition, Angiogenin is present in normal human plasma at levels as high as 60-120 ng/mL. Surprisingly, Angiogenin has been found to be a member of the ribonuclease superfamily with approximately 35% sequence similarity at the amino acid level with pancreatic RNase. Angiogenin exhibits ribonucleolytic activity that is distinctly different than that of pancreatic RNase A. The ribonucleolytic activity of Angiogenin toward most RNase A substrates is much lower than that of RNase A. Nevertheless, the ribonucleolytic activity of Angiogenin is essential to its angiogenic activity since inhibition of the Angiogenin RNase activity will also abolish angiogenesis activity. The activity of recombinant mouse ANG was measured by its ribonucleolytic activity toward RNA. The result was shown in figure 1, and the rANG produces a delta Abs260/ug >1.0 in two hours.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for ANG active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	239835771
NCBI GeneID	11727
NCBI Accession #	NP_001155203.1
NCBI GenBank Nucleotide #	NM_001161731.2
UniProt Accession #	P21570
Molecular Weight	16,228 Da
NCBI Official Full Name	angiogenin
NCBI Official Synonym Full Names	angiogenin, ribonuclease, RNase A family, 5
NCBI Official Symbol	Ang
NCBI Official Synonym Symbols	Ang1; Rnase5; Rnase5a; A1385586
NCBI Protein Information	angiogenin
UniProt Protein Name	Angiogenin
UniProt Gene Name	Ang
UniProt Synonym Gene Names	Ang1; Rnase5; Rnase5a; RNase 5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.