

Active Recombinant Mouse ANG protein, His-GST-tagged

Cat. No. Ang-520M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse ANG protein(P21570)(25~145 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	25-145 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

activity of recombinant mouse ANG was measured by its ribonucleolytic activity toward RNA. The rmANG produces a delta Abs260/μg >1.0 in two hours.

Molecular Mass	42.7kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

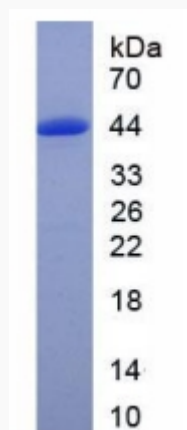
Gene Name	Ang angiogenin, ribonuclease, RNase A family, 5 [Mus musculus]
Official Symbol	ANG
Synonyms	ANG; angiogenin, ribonuclease, RNase A family, 5; angiogenin; RNase 5; angiogenin-1; ribonuclease 5; angiogenin, ribonuclease A family, member 1; Ang1; Rnase5; Rnase5a; AI385586;
Gene ID	11727
mRNA Refseq	NM_001161731
Protein Refseq	NP_001155203

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SDS-PAGE



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