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Product Information

ANGIOGENIN

Recombinant, Human
Expressed in *E. coli*

Product Number **A 6955**

Product Description

Angiogenin was initially identified from the serum free supernatants of the established HT-29 human adenocarcinoma cell line.¹ Angiogenin is a single chain 14.4 kDa polypeptide containing one tryptophan, one methionine, six cysteines and basic amino acids. Its isoelectric point is >9.5. Angiogenesis is the formation of blood vessels or capillaries from existing blood vessels due to specific signals. Angiogenin induces the growth of new blood vessels when implanted in the rabbit cornea.¹ Angiogenin will stimulate capillary and umbilical vein endothelial cells to produce diacylglycerol. Angiogenin is a member of the ribonuclease superfamily. Like other members of the ribonuclease superfamily, Angiogenin is a cytotoxic agent that can eliminate cellular protein synthesis. The inhibition is caused by Angiogenin functioning as a cytotoxic tRNA-specific RNase.

The biological activity of recombinant, human Angiogenin is measured by its ribonucleolytic activity on yeast tRNA.²

Reconstitution and Use

Reconstitute the contents of the vial using 0.2 µm-filtered PBS containing 0.1% HSA or BSA to a concentration not less than 50 µg/ml.

Storage/Stability

Prior to reconstitution, can be stored at -20 °C for more than 6 months. After reconstitution, store at 2-8 °C for a maximum of one month. For extended storage, freeze in working aliquots at -70 °C or -20 °C. Repeated freezing and thawing is not recommended.

Product Profile

Lyophilized from a 0.2 µm-filtered solutions of PBS, pH 7.4, containing 2.5 mg Bovine Serum Albumin (BSA) as a carrier protein.

References

1. Fett, J. W., et al., *Biochemistry*, **24**, 5480 (1985).
2. Lee, F. S., et al., *Biochem. Biophys. Res. Commun.*, **161**, 121 (1989).

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