

Angiogenin Fragment (108-122)

Synthetic Peptide Catalog # SP2657a

Specification

Angiogenin Fragment (108-122) - Product Information

Primary Accession P03950

Other Accession Q71MJ0, Q8WN67, Q8WME8
Sequence NH2-ENGLPVHLDQSIFRR-COOH

Angiogenin Fragment (108-122) - Additional Information

Gene ID 283

Other Names

Angiogenin, 3127-, Ribonuclease 5, RNase 5, ANG, RNASE5

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Angiogenin Fragment (108-122) - Protein Information

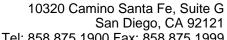
Name ANG

Synonyms RNASE5

Function

Ribonuclease that cleaves tRNA within anticodon loops to produce tRNA-derived stress-induced fragments (tiRNAs) which inhibit protein synthesis and triggers the assembly of stress granules (SGs) (PubMed:<a href="http://www.uniprot.org/citations/1400510"

target="_blank">1400510, PubMed:21855800). Binds to actin on the surface of endothelial cells; once bound, angiogenin is endocytosed and translocated to the nucleus (PubMed:8127865). Stimulates ribosomal RNA synthesis including that containing the initiation site sequences of 45S rRNA (PubMed:12051708). Angiogenin induces vascularization of normal and malignant tissues (PubMed:19354288). Angiogenic activity is regulated by interaction with RNH1 in vivo (PubMed:19354288).





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Cellular Location

Cytoplasmic vesicle, secretory vesicle lumen {ECO:0000250|UniProtKB:Q3TMQ6}. Secreted {ECO:0000250|UniProtKB:P10152}. Nucleus. Nucleus, nucleolus. Note=Rapidly endocytosed by target cells and translocated to the nucleus where it accumulates in the nucleolus and binds to DNA (PubMed:12051708)

Tissue Location

Expressed predominantly in the liver. Also detected in endothelial cells and spinal cord neurons

Angiogenin Fragment (108-122) - Images