

# Angiogenin Fragment (108-123)

Synthetic Peptide Catalog # SP2658a

## **Specification**

# Angiogenin Fragment (108-123) - Product Information

Primary Accession Other Accession Sequence P03950 Q8WME8, Q71MJ0

NH2-ENGLPVHLDQSIFRRP-COOH

# Angiogenin Fragment (108-123) - 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 (108-123) - Protein Information

**Name ANG** 

### **Synonyms RNASE5**

# **Function**

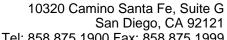
Ribonuclease that cleaves tRNA within anticodon loops to produce tRNA-derived stress-induced fragments (tiRNAs) which inhibit protein synthesis and triggers the assembly of stress granules (SGs) (PubMed:<a href="http://www.uniprot.org/citations/1400510"

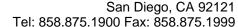
target="\_blank">1400510</a>, PubMed:<a href="http://www.uniprot.org/citations/21855800" target="\_blank">21855800</a>). Binds to actin on the surface of endothelial cells; once bound, angiogenin is endocytosed and translocated to the nucleus (PubMed:<a

href="http://www.uniprot.org/citations/8127865" target="\_blank">8127865</a>). Stimulates ribosomal RNA synthesis including that containing the initiation site sequences of 45S rRNA (PubMed:<a href="http://www.uniprot.org/citations/12051708" target="\_blank">12051708</a>). Angiogenin induces vascularization of normal and malignant tissues (PubMed:<a

href="http://www.uniprot.org/citations/19354288" target="\_blank">19354288</a>). Angiogenic activity is regulated by interaction with RNH1 in vivo (PubMed:<a

href="http://www.uniprot.org/citations/19354288" target="\_blank">19354288</a>).







# **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 (108-123) - Images