

# Angiogenin Fragment (108-122)

Synthetic Peptide Catalog # SP2657b

# **Specification**

# Angiogenin Fragment (108-122) - Product Information

Primary Accession <u>Q8WN67</u>

Other Accession Q71MJ0, P03950, Q8WME8
Sequence NH2-ENGLPVHLDQSIFRR-COOH

# Angiogenin Fragment (108-122) - Additional Information

#### **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). Binds to actin on the surface of endothelial cells; once bound, angiogenin is endocytosed and translocated to the nucleus. Stimulates ribosomal RNA synthesis including that containing the initiation site sequences of 45S rRNA. Angiogenin induces vascularization of normal and malignant tissues. Angiogenic activity is regulated by interaction with RNH1 in vivo.

## **Cellular Location**

Cytoplasmic vesicle, secretory vesicle lumen {ECO:0000250|UniProtKB:Q3TMQ6}. Secreted {ECO:0000250|UniProtKB:P10152}. Nucleus, nucleolus {ECO:0000250|UniProtKB:P03950}. Note=Rapidly endocytosed by target cells and translocated to the nucleus where it accumulates in the nucleolus and binds to DNA (By similarity) {ECO:0000250|UniProtKB:P03950}

# Angiogenin Fragment (108-122) - Images