

**Angiogenin Fragment (108-122)**  
**Synthetic Peptide**  
**Catalog # SP2657a****Specification**

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**Angiogenin Fragment (108-122) - Product Information**

Primary Accession	<a href="#">P03950</a>
Other Accession	<a href="#">Q71MJ0</a> , <a href="#">Q8WN67</a> , <a href="#">Q8WME8</a>
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: [1400510](http://www.uniprot.org/citations/1400510), PubMed: [21855800](http://www.uniprot.org/citations/21855800)). Binds to actin on the surface of endothelial cells; once bound, angiogenin is endocytosed and translocated to the nucleus (PubMed: [8127865](http://www.uniprot.org/citations/8127865)). Stimulates ribosomal RNA synthesis including that containing the initiation site sequences of 45S rRNA (PubMed: [12051708](http://www.uniprot.org/citations/12051708)). Angiogenin induces vascularization of normal and malignant tissues (PubMed: [19354288](http://www.uniprot.org/citations/19354288)). Angiogenic activity is regulated by interaction with RNH1 in vivo (PubMed: [19354288](http://www.uniprot.org/citations/19354288)).

**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**