

Angiogenin Fragment (108-123)
Synthetic Peptide
Catalog # SP2658a**Specification**

Angiogenin Fragment (108-123) - Product Information

Primary Accession	P03950
Other Accession	Q8WME8 , Q71MJ0
Sequence	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: [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 (108-123) - Images