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Angiogenin Fragment (108-122)

Synthetic Peptide
Catalog # SP2657b

Specification

Angiogenin Fragment (108-122) - Product Information

Primary Accession	Q8WN67
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