

#### OriGene Technologies, Inc.

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# Product datasheet for TP720180L

### Angiogenin (ANG) (NM\_001097577) Human Recombinant Protein

## **Product data:**

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human angiogenin, ribonuclease, RNase A family, 5 (ANG), transcript variant 2
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Gln25-Pro147
Tag:	Tag Free
Predicted MW:	14.3 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Endotoxin:	< 0.1 EU per $\mu$ g protein as determined by LAL test
Reconstitution Method:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH2O. It is not recommended to reconstitute a concentration less than 100 µg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	<u>NP_001091046</u>
Locus ID:	283
UniProt ID:	<u>P03950, W0UV28</u>
Cytogenetics:	14q11.2
Synonyms:	ALS9; HEL168; RAA1; RNASE4; RNASE5



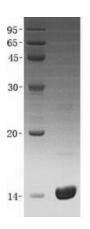
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#### **GRIGENE** Angiogenin (ANG) (NM\_001097577) Human Recombinant Protein – TP720180L

The protein encoded by this gene is a member of the RNase A superfamily though it has Summary: relatively weak ribonucleolytic activity. This protein is a potent mediator of new blood vessel formation and thus, in addition to the name RNase5, is commonly called angiogenin. This protein induces angiogenesis after binding to actin on the surface of endothelial cells. This protein also accumulates at the nucleolus where it stimulates ribosomal transcription. Under stress conditions this protein translocates to the cytosol where it hydrolyzes cellular tRNAs and influences protein synthesis. A signal peptide is cleaved from the precursor protein to produce a mature protein which contains a nuclear localization signal, a cell binding motif, and a catalytic domain. This protein has been shown to be both neurotrophic and neuroprotective and the mature protein has antimicrobial activity against some bacteria and fungi, including S. pneumoniae and C. albicans. Due to its effect on rRNA production and angiogenesis this gene plays important roles in cell growth and tumor progression. Mutations in this gene are associated with progression of amyotrophic lateral sclerosis (ALS). This gene and the neighboring RNase4 gene share promoters and 5' exons though each gene then splices to a distinct 3' exon containing the complete coding region of each gene. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2020]

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

#### **Product images:**



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