

## ANG Protein, Human, Recombinant

### General Information

Synonyms:	RNASE5;ANG;Angiogenin;Ribonuclease 5;RNase 5
Protein Construction:	Gln25-Pro147
Species:	Human
Expression Host:	E. coli
Accession:	P03950
Molecular Weight:	14 KDa (reducing condition)
AA Sequence:	Gln25-Pro147

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Angiogenin belongs to the pancreatic ribonuclease family. Angiogenin is primarily expressed in the liver. It may act as a tRNA-specific ribonuclease that abolishes protein synthesis by specifically hydrolyzing cellular tRNAs. Angiogenin is a potent stimulator of new blood vessel formation. And Angiogenin is endocytosed and translocated to the nucleus by binding to actin on the surface of endothelial cells. Angiogenic activity is regulated by interaction with RNH1 in vivo. In addition, Angiogenin is associated with susceptibility to amyotrophic lateral

sclerosis, which is a degenerative disorder of motor neurons in the cortex, brain stem and spinal cord.

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