

Human Angiogenin, Tag Free Protein

HA210986



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| Product name: | Human Angiogenin, Tag Free |
| Species reactivity: | Human |
| Bio-Activity: | Testing in progress. |
| Protein construction description: | A DNA sequence encoding the human Angiogenin protein (P03950) (Gln 24-Pro 147) was expressed with tag free. |

Background: 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. A neurodegenerative disorder affecting upper motor neurons in the brain and lower motor neurons in the brain stem and spinal cord, resulting in fatal paralysis. Sensory abnormalities are absent. The pathologic hallmarks of the disease include pallor of the corticospinal tract due to loss of motor neurons, presence of ubiquitin-positive inclusions within surviving motor neurons, and deposition of pathologic aggregates. The etiology of amyotrophic lateral sclerosis is likely to be multifactorial, involving both genetic and environmental factors. The disease is inherited in 5-10% of the cases.

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| Purity: | >95% as determined by SDS-PAGE. |
| Endotoxin: | Less than 1.0 EU per µg by the LAL method. |
| Fragment region: | Angiogenin (24-147) |
| Source: | HEK293 |
| Accession: | P03950 |
| Predicted molecular mass: | 14.5 kD |
| Formulation: | Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol. |
| Reconstitution: | Reconstitute at 250 µg/ml in sterile water. |
| Storage: | Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles. |

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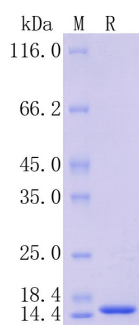


Fig1: Protein on SDS-PAGE under reducing (R) condition.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".
