

Recombinant Bovine Angiogenin-1

Catalog No: #AP72264



Package Size: #AP72264-1 20ug #AP72264-2 100ug #AP72264-3 1mg

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Description

Product Name	Recombinant Bovine Angiogenin-1
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:24-148aaSequence Info:Full Length
Accession No.	P10152
Uniprot	P10152
Calculated MW	18.6 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	AQDDYRYIHFLTQHYDAKPKGRNDEYCFNMMKNRRLTRPCKDRNTFIHGKNDIKAICEDRNGQPYRGDLRIS KSEFQITICKHKGGSSRPPCRYGATEDSRVIVVGCENGLPVHFDSEFITPRH
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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. 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). Angiogenin induces vascularization of normal and malignant tissues. Angiogenic activity is regulated by interaction with RNH1 in vivo. Has very low ribonuclease activity.

References

Solution structure of bovine angiogenin by 1H nuclear magnetic resonance spectroscopy. Lequin O., Albaret C., Bontems F., Spik G., Lallemand J.-Y. *Biochemistry* 35:8870-8880(1996) Research Topic: Others

Note: This product is for in vitro research use only