Recombinant Mouse Ang, His-tagged

Cat. No. Ang-3453M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Angiogenin (Ang)
Species	Mouse
Source	E.Coli/Yeast
ProteinLength	145
Description	This gene encodes a member of the pancreatic ribonuclease A superfamily and is a potent inducer of neovascularization. The encoded protein is a secreted multifunctional tRNA-specific ribonuclease that promotes angiogenesis in response to angiogenetic stimuli such as hypoxia, mediates stress-induced translational repression by cleaving cellular tRNAs, stimulates cell proliferation by mediating rRNA transcription in prostate cancer cells, and is involved in neurite pathfinding. This gene resides in a cluster of highly related genes. It shares dual promoters and 5" exons with the ribonuclease, RNase A family 4 gene. Two alternatively spliced variants, with different 5" exons but the same coding exon, have been identified. Multiple pseudogenes have been found for this gene.
Form	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
Purity	>90%
Notes	Small volumes of Ang recombinant protein may occasionally become entrapped in

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	the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice.
Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Storage Buffer	PBS pH 7.4, 50% glycerol
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name	Ang angiogenin, ribonuclease, RNase A family, 5 [Mus musculus]
Official Symbol	Ang
Synonyms	ANG; angiogenin, ribonuclease, RNase A family, 5; angiogenin; RNase 5; angiogenin-1; ribonuclease 5; angiogenin, ribonuclease A family, member 1; Ang1; Rnase5; Rnase5a; AI385586;
Gene ID	11727
mRNA Refseq	NM_001161731
Protein Refseq	NP_001155203
Pathway	Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis, organism-specific biosystem; Tie2 Signaling, organism-specific biosystem;

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Function	RNA binding; actin binding; copper ion binding; endonuclease activity; heparin binding; hydrolase activity; nuclease activity; nucleic acid binding; pancreatic ribonuclease activity; peptide binding; receptor binding; ribonuclease activity; ribonuclease activity;

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