
Product Data Sheet

Product Name: ANG Human
 Cat. No.: GP22716
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Angiogenin; ANG; Ribonuclease 5; RNase 5; RNASE5; ribonuclease; RNase A family; 5; ALS9; HEL168; MGC22466; MGC71966; RNASE4.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MQDNSRYTHF LTQHYDAKPQ GRDDRYCESI MRRRGLTSPC KDINTFIHGN KRSIKAICEN KNGNPHRENL RISKSSFQVT TCKLHGGSPW PPCQYRATAG FRNVVACEN GLPVHLDQSI FRRP.		
Formulation	The ANG solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.		

Introduction

Angiogenin (ANG) is a part of the RNase A family. ANG is an extremely effective mediator of new blood vessel formation. ANG Cleaves tRNA within anticodon loops in order to produce tRNA-derived stress-induced fragments (tiRNAs) that inhibit protein synthesis and trigger the assembly of stress granules. ANG is also stimulates ribosomal RNA synthesis. The interaction with RNH1 in vivo regulates the Angiogenic activity.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ANG Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 144 amino acids (25-147) and having a molecular mass of 16.4 kDa. ANG is fused to a 21 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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