
Product Data Sheet

Product Name: RNPA E.Coli
 Cat. No.: GP26179
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	ECK3696, Rnase P protein, RnaseP protein, b3704, JW3681, Ribonuclease P protein component, EC 3.1.26.5, Protein C5.		
Amino Acid Sequence	MVKLAFPREL RLLTPSQFTF VFQQPQRAGT PQITILGRLN SLGHPRIGLT VAKKNVRRAH ERNRIKRLTR ESFRLRQHEL PAMDFVVVAK KGVADLDNRA LSEALEKLWR RHCRLARGS		
Formulation	RNPA protein solution (0.25mg/ml) in Phosphate-Buffered Saline (pH 7.4) and 10% Glycerol.		

Introduction

Rnase P protein, AKA rnpA, is an important enzyme consisting of the C5 protein (which encoded by rnpA) and the catalytic M1 RNA (encoded by rnpB) subunits. rnpA is ribonucleoprotein that catalyzes the removal of the 5'-leader elements of precursor tRNAs and generates the mature 5'-end of tRNAs. This step is critical for the formation of functional tRNA molecules in bacteria, archaea and eukarya. More importantly, it has lately been established that RNase P is essential for the endonucleolytic separation of certain polycistronic tRNA transcripts such as valV valW, leuQ leuP leuV and secG leuU. Therefore, it was hypothesized that the essential function of RNase P might be related to the complete absence of a particular tRNA that was dependent on the enzyme for initial separation from polycistronic transcripts.

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

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

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RNPA E.Coli Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 119 amino acids (1-119a.a) and having a molecular mass of 13.7kDa. RNPA is purified by proprietary chromatographic techniques.

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