
Product Data Sheet

Product Name: ELAC1 Human
 Cat. No.: GP21595
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms
 ElaC Ribonuclease Z 1; D29; ElaC Homolog Protein 1; TRNA 3 Endonuclease 1; TRNA Z (Short Form); Ribonuclease Z 1; Deleted In Ma29; EC 3.1.26.11; TRNase Z 1; RNaseZ(S); RNase Z 1; Zinc Phosphodiesterase ELAC Protein 1; TRNA 3 Processing Endoribonuclease; ElaC (E. Coli) Homolog 1; ElaC Homolog 1 (E. Coli); ElaC Homolog 1; TRNase ZS; ELAC1.

Amino Acid Sequence
 MGSSHHHHH SSGLVPRGSH MGSMSMDVTF LGTGAAYPSP TRGASAVVLR
 CEGECWLFDC GEGTQTQLMK SQLKAGRITK IFITHLHGDH FFGLPGLLCT
 ISLQSGSMVS KQPIEYGPV GLRDFIWRTM ELSHTELVFH YVHELVP
 DQCPAEELKE FAHVNRADSP PKEEQGRTIL LDSEENSYLL FDDEQFVVK
 FRLFHRIPSF GFSVVEKKRP GKLNAQKLKD LGVPPGPAYG KLKNGISVVL
 ENGVTISPQD VLKKPIVGRK ICILGDCSGV VGDGGVKLCF EADLLIHEAT
 LDDAQMDKAK EHGHTPQMA ATFAKLCRAK RLVLTHTFSQR YKPVALAREG
 ETDGIAELKK QAESVLDLQE VTLAEDFMVI SIPIKK

Formulation
 ELAC1 protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.

Introduction

ElaC Ribonuclease Z 1, also known as ELAC1 is a member of the RNase Z family. Zinc phosphodiesterase, which shows some tRNA 3'-processing endonuclease activity. In addition, ELAC1 is implicated in tRNA maturation, by removing a 3'-trailer from precursor tRNA.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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

ELAC1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 386 amino acids (1-363 a.a) and having a molecular mass of 42.4 kDa. ELAC1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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