

Recombinant Human ELAC1, His-tagged

Cat. No. ELAC1-96H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ELAC1 was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	ELAC1 also known as Zinc phosphodiesterase ELAC protein 1. Zinc phosphodiesterase, which displays some tRNA 3"-processing endonuclease activity. Probably involved in tRNA maturation, by removing a 3"-trailer from precursor tRNA.
Form	Liquid. In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT
Molecular Mass	42.4 kDa (386aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSMDVTF LGTGAAYPSP TRGASAVVLR CEGECWLFDC GEGTQTQLMK SQLKAGRITK IFITHLHGDH FFGLPGLLCT ISLQSGSMVS KQPIEIYGPV GLRDFIWRTM ELSHTELVFH YVVHELVP DQCPAEELKE FAHVN RADSP PKEEQGRTIL LDSEENS YLL FDDEQFV VKA FRLFHRIPSF GFSVVEKKRP GKLNAQKLKD LGVPPGPAYG KLKNGISVVL ENGV TISPQD VLKKPIVGRK ICILGDCSGV VGDGGVKLCF EADLLIHEAT LDDAQMDKAK EHG HSTPQMA ATFAKLCRAK RLVLT HFSQR YKPVALAREG ETDGIAELKK QAESVLDLQE VTLAEDFMVI SIPIKK
Purity	>80% by SDS - PAGE

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Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Absorbance at 280nm)
GENE INFORMATION	
Gene Name	ELAC1 <i>elaC</i> homolog 1 (E. coli) [Homo sapiens]
Official Symbol	ELAC1
Synonyms	ELAC1; <i>elaC</i> homolog 1 (E. coli); <i>elaC</i> (E. coli) homolog 1; zinc phosphodiesterase ELAC protein 1; D29; tRNA Z (short form); RNase Z 1; tRNase ZS; tRNase Z 1; deleted in Ma29; ribonuclease Z 1; tRNA 3 endonuclease 1; <i>elaC</i> homolog protein 1; tRNA 3 processing endoribonuclease; FLJ59261;
Gene ID	55520
mRNA Refseq	NM_018696
Protein Refseq	NP_061166
MIM	608079
UniProt ID	Q9H777
Chromosome Location	18q21
Pathway	RNA transport, organism-specific biosystem; RNA transport, conserved biosystem;
Function	endonuclease activity; endoribonuclease activity, producing 5-phosphomonoesters;

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hydrolase activity; metal ion binding;

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