

Recombinant Human ELAC2, GST-tagged

Cat. No. ELAC2-12395H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human ELAC2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength 86-385a.a.

Description The protein encoded by this gene has a C-terminal domain with tRNA 3' end processing endoribonuclease activity, which catalyzes the removal of the 3' trailer from precursor tRNAs. The protein also interacts with activated Smad family member 2 (Smad2) and its nuclear partner forkhead box H1 (also known as FAST-1), and reduced expression can suppress transforming growth factor-beta induced growth arrest. Mutations in this gene result in an increased risk of prostate cancer. Multiple transcript variants encoding different isoforms have been found for this gene.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	ELAC2 <i>elaC</i> homolog 2 (E. coli) [Homo sapiens]
Official Symbol	ELAC2
Synonyms	ELAC2; <i>elaC</i> homolog 2 (E. coli); <i>elaC</i> (E. coli) homolog 2; zinc phosphodiesterase ELAC protein 2; FLJ10530; HPC2; tRNase Z (long form); RNase Z 2; tRNase Z 2; ribonuclease Z 2; tRNA 3 endonuclease 2; <i>elaC</i> homolog protein 2; heredity prostate cancer protein 2; putative prostate cancer susceptibility protein HPC2/ELAC2; ELC2; FLJ36693; FLJ42848;
Gene ID	60528
mRNA Refseq	NM_001165962
Protein Refseq	NP_001159434
MIM	605367
UniProt ID	Q9BQ52
Chromosome Location	17p11.2
Pathway	RNA transport, organism-specific biosystem; RNA transport, conserved biosystem;
Function	endonuclease activity; hydrolase activity; metal ion binding;

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