

Active Recombinant Human RNASE1 Protein, His-tagged

Cat. No. RNASE1-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RNASE1 (29-156aa), fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	29-156 a.a.
Description	This gene encodes a member of the pancreatic-type of secretory ribonucleases, a subset of the ribonuclease A superfamily. The encoded endonuclease cleaves internal phosphodiester RNA bonds on the 3'-side of pyrimidine bases. It prefers poly(C) as a substrate and hydrolyzes 2',3'-cyclic nucleotides, with a pH optimum near 8.0. The encoded protein is monomeric and more commonly acts to degrade ds-RNA over ss-RNA. Alternative splicing occurs at this locus and four transcript variants encoding the same protein have been identified.
Form	Liquid
Bio-activity	Specific activity is $> 3 \times 10^6$ unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0 nmole of RNA per minute at 25 centigrade.
Molecular Mass	15.3 kDa

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Identity	134aa
AA Sequence	KESRAKKFQRQHMDSDSSPSSSSTYCNQMMRRRNMTQGRCKPVNTFVHEPLVDV QNVCFQEKVTCCKNGQGNCYKSNSMHHITDCRLTNGSRYPNCAYRTSPKERHIIIVAC EGSPYVPVHFDASVEDST
N-terminal Sequence Analysis	Lys-Glu-Ser-Arg-Ala
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	90% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at 2 to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	RNASE1 ribonuclease A family member 1, pancreatic [Homo sapiens (human)]
Official Symbol	RNASE1
Synonyms	RNASE1; ribonuclease A family member 1, pancreatic; RAC1; RIB1; RNS1; ribonuclease pancreatic; HP-RNase; RIB-1; RNase 1; RNase A; RNase upl-1; ribonuclease 1; ribonuclease A C1; ribonuclease, RNase A family, 1 (pancreatic); EC

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Gene ID

6035

mRNA Refseq

NM_198235

Protein Refseq

NP_937878

MIM

180440

UniProt ID

P07998

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