

Recombinant Mouse Rnaseh1 Protein, His-tagged

Cat. No. Rnaseh1-2762M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Rnaseh1 Protein (Leu5-Asp285) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Leu5-Asp285
Description	This gene encodes an endonuclease that specifically degrades the RNA of RNA-DNA hybrids and is necessary for DNA replication and repair. This enzyme is present in both mitochondria and nuclei, which are resulted from translation of a single mRNA with two in-frame initiation start codons. The use of the first start codon produces the mitochondrial isoform and the use of the second start codon produces the nuclear isoform. The production of the mitochondrial isoform is modulated by an upstream open reading frame (uORF) which encodes 7aa in mouse. An alternately spliced transcript variant has been found which is a candidate for nonsense-mediated mRNA decay (NMD).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 34.9 kDa Accurate Molecular Mass: 38 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Rnaseh1 ribonuclease H1 [Mus musculus (house mouse)]
Official Symbol	Rnaseh1
Synonyms	Rnaseh1; ribonuclease H1; ribonuclease H1; RNase H1; EC 3.1.26.4
Gene ID	19819
mRNA Refseq	NM_011275
Protein Refseq	NP_035405
UniProt ID	E9QLN8

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