

Recombinant Mouse Rnaset2a Protein, MYC/DDK-tagged

Cat. No. Rnaset2a-007M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse ribonuclease T2A (Rnaset2a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Ribonuclease that plays an essential role in innate immune response by recognizing and degrading RNAs from microbial pathogens that are subsequently sensed by TLR 8. Cleaves preferentially single-stranded RNA molecules between purine and uridine residues, which critically contributes to the supply of catabolic uridine and the generation of purine-2',3'-cyclophosphate-terminated oligoribonucleotides. In turn, RNase T2 degradation products promote the RNA-dependent activation of TLR8. Plays also a key role in degradation of mitochondrial RNA and processing of non-coding RNA imported from the cytosol into mitochondria. Participates as well in degradation of mitochondrion-associated cytosolic rRNAs.
Molecular Mass	30.1 kDa
Purity	>80%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 ug/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Rnaset2a ribonuclease T2A [Mus musculus (house mouse)]
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Official Symbol	Rnaset2a
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Synonyms	Rnaset2a; ribonuclease T2A; C79750; Rnaset2; RNASE6PL; 0610007O07Rik; 4833423A10Rik; 4930532K22Rik; ribonuclease T2-A; ribonuclease 6; ribonuclease 6-A; ribonuclease T2; EC 4.6.1.19
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Gene ID	100037283
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mRNA Refseq	NM_001083938
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Protein Refseq	NP_001077407
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UniProt ID	Q5FWA0
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