

Recombinant Mouse Parn Protein, Myc/DDK-tagged

Cat. No. Parn-4677M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length poly(A)-specific ribonuclease (deadenylation nuclease) (Parn), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	3'-exoribonuclease that has a preference for poly(A) tails of mRNAs, thereby efficiently degrading poly(A) tails. Exonucleolytic degradation of the poly(A) tail is often the first step in the decay of eukaryotic mRNAs and is also used to silence certain maternal mRNAs translationally during oocyte maturation and early embryonic development. Interacts with both the 3'-end poly(A) tail and the 5'-end cap structure during degradation, the interaction with the cap structure being required for an efficient degradation of poly(A) tails. Involved in nonsense-mediated mRNA decay, a critical process of selective degradation of mRNAs that contain premature stop codons. Also involved in degradation of inherently unstable mRNAs that contain AU-rich elements (AREs) in their 3'-UTR, possibly via its interaction with KHSRP. Probably mediates the removal of poly(A) tails of AREs mRNAs, which constitutes the first step of destabilization. Also able to recognize poly(A) tails of microRNAs such as MIR21 and H/ACA box snoRNAs (small nucleolar RNAs) leading to leading to microRNAs degradation or snoRNA increased stability.
Molecular Mass	71.6 kDa

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

GENE INFORMATION

Gene Name	Parn poly(A)-specific ribonuclease (deadenylation nuclease) [Mus musculus (house mouse)]
Official Symbol	Parn
Synonyms	PARN; poly(A)-specific ribonuclease (deadenylation nuclease); poly(A)-specific ribonuclease PARN; polyadenylate-specific ribonuclease; DAN; 1200003I18Rik
Gene ID	74108
mRNA Refseq	NM_028761
Protein Refseq	NP_083037
UniProt ID	Q8VDG3

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