

Recombinant Mouse Dis3 Protein, Myc/DDK-tagged

Cat. No. Dis3-2568M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length DIS3 mitotic control homolog (<i>S. cerevisiae</i>) (cDNA clone MGC:37123 IMAGE:4952415), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Putative catalytic component of the RNA exosome complex which has 3'→5' exoribonuclease activity and participates in a multitude of cellular RNA processing and degradation events. In the nucleus, the RNA exosome complex is involved in proper maturation of stable RNA species such as rRNA, snRNA and snoRNA, in the elimination of RNA processing by-products and non-coding 'pervasive' transcripts, such as antisense RNA species and promoter-upstream transcripts (PROMPTs), and of mRNAs with processing defects, thereby limiting or excluding their export to the cytoplasm. The RNA exosome may be involved in Ig class switch recombination (CSR) and/or Ig variable region somatic hypermutation (SHM) by targeting AICDA deamination activity to transcribed dsDNA substrates. In the cytoplasm, the RNA exosome complex is involved in general mRNA turnover and specifically degrades inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. It seems to be involved in degradation of histone mRNA. DIS3 has both 3'-5' exonuclease and endonuclease activities.

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Molecular Mass	64.6 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.
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	Dis3 DIS3 homolog, exosome endoribonuclease and 3'-5' exoribonuclease [<i>Mus musculus</i> (house mouse)]
Official Symbol	Dis3
Synonyms	DIS3; DIS3 mitotic control homolog (<i>S. cerevisiae</i>); exosome complex exonuclease RRP44; protein DIS3 homolog; ribosomal RNA-processing protein 44; 2810028N01Rik
Gene ID	72662
mRNA Refseq	NM_028315
Protein Refseq	NP_082591
UniProt ID	Q9CSH3

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