

Recombinant Mouse Sart3 Protein, Myc/DDK-tagged

Cat. No. Sart3-5693M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length squamous cell carcinoma antigen recognized by T cells 3 (Sart3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	U6 snRNP-binding protein that functions as a recycling factor of the splicing machinery. Promotes the initial reassembly of U4 and U6 snRNPs following their ejection from the spliceosome during its maturation. Also binds U6atac snRNPs and may function as a recycling factor for U4atac/U6atac spliceosomal snRNP, an initial step in the assembly of U12-type spliceosomal complex. The U12-type spliceosomal complex plays a role in the splicing of introns with non-canonical splice sites. May also function as a substrate-targeting factor for deubiquitinases like USP4 and USP15. Recruits USP4 to ubiquitinated PRPF3 within the U4/U5/U6 tri-snRNP complex, promoting PRPF3 deubiquitination and thereby regulating the spliceosome U4/U5/U6 tri-snRNP spliceosomal complex disassembly. May also recruit the deubiquitinase USP15 to histone H2B and mediate histone deubiquitination, thereby regulating gene expression and/or DNA repair. May play a role in hematopoiesis probably through transcription regulation of specific genes including MYC.
Molecular Mass	110.1 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	Sart3 squamous cell carcinoma antigen recognized by T cells 3 [Mus musculus (house mouse)]
Official Symbol	Sart3
Synonyms	SART3; squamous cell carcinoma antigen recognized; squamous cell carcinoma antigen recognized by T-cells 3; SART-3; mSART-3; tumor-rejection antigen SART3; AU045857; mKIAA0156
Gene ID	53890
mRNA Refseq	NM_016926
Protein Refseq	NP_058622
UniProt ID	Q9JLI8

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