# Recombinant Human SART3 Protein (600-900 aa), His-tagged

**Cat. No.** SART3-1664H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human SART3 Protein (600-900 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Cancer. Protein Description: Partial. |
| **Species** | Human |
| **Source** | Yeast |
| **ProteinLength** | 600-900 aa |
| **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 (PubMed:12032085). 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 (PubMed:14749385). 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 (PubMed:20595234). May also recruit the deubiquitinase USP15 to histone H2B and mediate histone deubiquitination, thereby regulating gene expression and/or DNA repair (PubMed:24526689). May play a role in hematopoiesis probably through transcription regulation of specific genes including |

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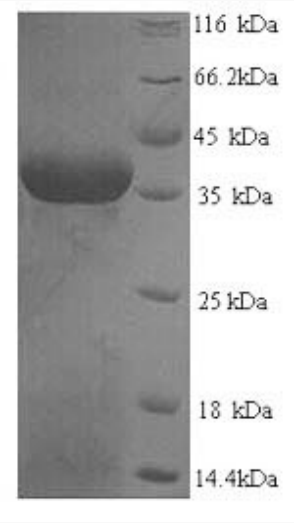
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| | MYC (By similarity).By similarity4 Publications Regulates Tat transactivation activity through direct interaction. May be a cellular factor for HIV-1 gene expression and viral replication. |
| **Form** | Tris-based buffer,50% glycerol |
| **Molecular Mass** | 35.8 kDa |
| **AA Sequence** | QRKRARAEKKALKKKKIRGPEKRGADEDDEKEWGDDEEEQPSKRRRVENSIPAA GETQNVEVAAGPAGKCAAVDVEPPSKQKEKAASLKRDMPKVLHDSSKDSITVFVSN LPYSMQEPDTKLRPLFEACGEVVQIRPIFSNRGDFRGYCYVEFKEEKSALQALEMDR KSVEGRPMFVSPCVDKSKNPDFKVFRYSTSLEKHKLFISGLPFSCTKEELEEICKAH GTVKDLRLVTNRAGKPKGLAYVEYENESQASQAVMKMDGMTIKENIIKVAISNPPQR KVPEKPETRKAPGGPMLLP |
| **Purity** | > 90% as determined by SDS-PAGE. |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week. |
| **Storage** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| **Concentration** | A hardcopy of COA with reconstitution instruction is sent along with the products. |

## GENE INFORMATION

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| **Gene Name** | SART3 squamous cell carcinoma antigen recognized by T cells 3 [ Homo sapiens ] |

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| **Official Symbol** | SART3 |
| **Synonyms** | SART3; KIAA0156; RP11 13G14; SART-3; hSART-3; P100; p110; DSAP1; TIP110; p110(nrb); RP11-13G14; MGC138188; |
| **Gene ID** | 9733 |
| **mRNA Refseq** | NM_014706 |
| **Protein Refseq** | NP_055521 |
| **MIM** | 611684 |
| **UniProt ID** | Q15020 |




(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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