

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

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 600-900 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | 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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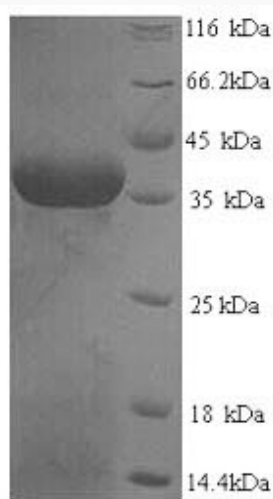
|                         |                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | 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.                                                                                                                                         |
| <b>Form</b>             | Tris-based buffer,50% glycerol                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 35.8 kDa                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | QKRARAEEKKALKKKKKKIRGPEKRGADEDDEKEWGDDEEEQPSKRRRVENSIPAA<br>GETQNVEVAAGPAGKCAAVDVEPPSKQKEKAASLKRDMPKVLHDSSKDSITVFVSN<br>LPYSMQEPDTKLRLPLFEACGEVVQIRPIFSNRGDFRGYCYVEFKEEKSALQALEMDR<br>KSVEGRPMFVSPCVDKSKNPDKFVFRYSTSLEKHKLFISGLPFSCTKEELEEEICKAH<br>GTVKDLRLVTNRAGKPKGLAYVEYENESQASQAVMKMDGMTIKENIIKVAISNPPQR<br>KVPEKPETRKAPGGPMLLP |
| <b>Purity</b>           | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                     |
| <b>Notes</b>            | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                                         |
| <b>Storage</b>          | 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.                  |
| <b>Concentration</b>    | A hardcopy of COA with reconstitution instruction is sent along with the products.                                                                                                                                                                                                                                                   |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                      |
| <b>Gene Name</b>        | SART3 squamous cell carcinoma antigen recognized by T cells 3 [ Homo sapiens ]                                                                                                                                                                                                                                                       |

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



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

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