



# Recombinant Human Cysteine--tRNA ligase, cytoplasmic (CARS1)

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| <b>Product Code</b>      | CSB-YP004529HU   |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.   |
| <b>Uniprot No.</b>       | P49589   |
| <b>Storage Buffer</b>    | Lyophilized from Tris/PBS-based buffer, 6% Trehalose, pH 8.0   |
| <b>Product Type</b>      | Recombinant Proteins   |
| <b>Immunogen Species</b> | Homo sapiens (Human)   |
| <b>Purity</b>            | >85% (SDS-PAGE)  |
| <b>Sequence</b>          | ADSSGQQGK GRRVQPQWSP PAGTQPCRLH LYNSLTRNKE VFIPQDGKKV<br>TWYCCGPTVY DASHMGHARS YISFDILRRV LKDYFKFDVF YCMNITDIDD<br>KIIKRARQNH LFEQYREKRP EAAQLLEDVQ AALKPFSVKL NETTDPDKKQ<br>MLERIQHAVQ LATEPLEKAV QSRLTGEEVN SCVEVLLEEA KDLLSDWLDS<br>TLGCDVTDNS IFSKLPKFEW GDFHRDMEAL NVLPPDVLTR VSEYVPEIVN<br>FVQKIVDNGY GYVSNQSVYF DTAKFASSEK HSYGKLVPEA VGDQKALQEG<br>EGDLSISADR LSEKRSPNDF ALWKASKPGE PSWPCPWGKG RPGWHIECSA<br>MAGTLLGASM DIHGGGFDLR FPHHDNELAQ SEAYFENDCW VRYFLHTGHL<br>TIAGCKMSKS LKNFITIKDA LKKHSARQLR LAFLMHSWKD TLDYSSNTME<br>SALQYEKFLN EFFLNVDIL RAPVDITGQF EKWGEEEEAEL NKNFYDKKTA<br>IHKALCDNVD TRTVMEEMRA LVSQCPLYMA ARKAVRKRPN QALLENIALY<br>LTHMLKIFGA VEEDSSLGFP VGGPGTSLSL EATVMPYLQV LSEFREGVRK<br>IAREQKVPEI LQLSDALRDN ILPELGVRFE DHEGLPTVVK LVDRNTLLKE<br>REEKRRVEEE KRKKKEEAAR RKQEQEAACL AKMKIPPSEM FLSETDKYSK<br>FDENGLPTHM MEGKELSKGQ AKKLKLFEA QEKLYKEYLQ MAQNGSFQ |
| <b>Source</b>            | Yeast  |
| <b>Target Names</b>      | CARS1  |
| <b>Protein Names</b>     | Recommended name: Cysteine--tRNA ligase, cytoplasmic EC=6.1.1.16<br>Alternative name(s): CysteinyI-tRNA synthetase Short name= CysRS   |
| <b>Expression Region</b> | 2-748  |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.  |
| <b>Protein Length</b>    | Full Length of Mature Protein  |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final  |



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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