

# Recombinant human SEPSECS protein

Catalog Number: ATGP0806

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-501aa

### UniProt No.

Q9HD40

### NCBI Accession No.

NP\_058651.3

### Alternative Names

O-phosphoseryl-tRNA(Sec) selenium transferase, Liver-pancreas antigen, LP, SLA-p35, SLA/LP autoantigen, Selenocysteine synthase, Sec synthase, SelenocysteinyI-tRNA(Sec) synthase, Sep-tRNA:Sec-tRNA synthase, SepSecS, Soluble liver antigen, SLA, UGA suppressor tRNA-associated protein, tRNA(Ser/Sec)-associated antigenic protein, TRNP48

## PRODUCT SPECIFICATION

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### Molecular Weight

57.9 kDa (521aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 40% glycerol, 0.15M NaCl, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

SEPSECS, also known as SLA/LP autoantigen, catalyzes the final step of sec synthesis by converting O-phosphoseryl-tRNA (sec) to selenocysteinyI-tRNA (sec) using selenophosphate as the selenium donor. Also, this protein is considered a specific marker of autoimmune hepatitis. Recombinant human SEPSECS protein, fused to

# Recombinant human SEPSECS protein

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His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

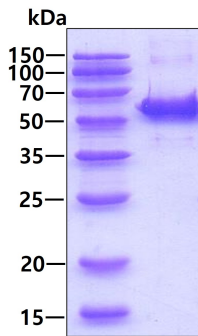
<MGSSHHHHHH SSGLVPRGSH> MNRESFAAGE RLVSPAYVRQ GCEARRSHEH LIRLLEK GK CPENGWDEST  
LELFLHELAI MDSNNFLGNC GVGEREGRVA SALVARRHYR FIIHGIGRSGD ISAVQPKAAG SLLNKITNS LVLDIIKLAG  
VHTVANCFVV PMATGMSLTL CFLTLRHKRP KAKYIIWPRI DQKSCFKSMI TAGFEPVIE NVLEGDELRT DLKAVEAKVQ  
ELGPDCILCI HSTTSCFAPR VPDRLEELAV ICANYDIPHI VNNAYGVQSS KCMHLIQQGA RVGRIDAFVQ SLDKNFMVPV  
GGAIAGFND SFIQEISKMY PGRASASPSL DVLITLLSLG SNGYKLLKE RKEMFSYLSN QIKKLSEAYN ERLHTPHNP  
ISLAMTLKTL DEHRDKAVTQ LGSMLFTRQV SGARVVPLGS MQTVSGYTFR GFMSHTNNYP CAYLNAASAI GMKMQDVDF  
IKRLDRCLKA VRKERSKESD DNYDKTEDVD IEEMALKLDN VLLDTYQDAS S

## General References

Palioura S., et al. (2009) Science. 325(5938):321-5.  
Yuan J., et al. (2006) Proc. Natl. Acad. Sci. u.S.A. 103:18923-18927

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.