

# Recombinant mouse SEPSECS protein

Catalog Number: ATGP3813

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-504aa

### UniProt No.

Q6P6M7

### NCBI Accession No.

NP\_766078

### Alternative Names

O-phosphoseryl-tRNA(Sec) selenium transferase, Selenocysteine synthase, Sec synthase, Selenocysteinyl-tRNA(Sec) synthase, Sep-tRNA:Sec-tRNA synthase, UGA suppressor tRNA-associated protein

## PRODUCT SPECIFICATION

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### Molecular Weight

57.7 kDa (527aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 1mM DTT, 0.2M NaCl, 50% glycerol

### 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 O-phosphoseryl-tRNA (Sec) selenium transferase, catalyzes the final step of sec synthesis by converting O-phosphoseryl-tRNA (sec) to selenocysteinyl-tRNA (sec) using selenophosphate as the selenium donor. Also, this protein is considered a specific marker of autoimmune hepatitis. Recombinant mouse Sepsecs protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

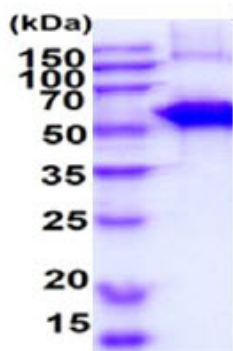
MGSSHHHHHH SSSLVPRGSH MGSMNPESFA AGERRVSPAY VRQGCEARRA HEHLIRLLE QGKCPEDGWD ESTLELFLHE  
LAVMDSNNFL GNCVGEREG RVASALVARR HYRFIHGIGR SGDISAVQPK AAGSSLLNKI TNSLVLNVIK LAGVHSVASC  
FVVPMTGMS LTLCFLTLRH KRPKAKYIHW PRIDQKSCFK SMVTAGFEPV VIENVLEGDE LRTDLKAVEA KIQELGPEHI  
LCLHSTTACF APRVPDRLEE LAVICANYDI PHVVNNAYGL QSSKCMHLIQ QGARVGRIDA FVQSLDKNFM VPVGGAIAG  
FNEPFIQDIS KMYPGRASAS PSLDVLITLL SLGCSGYRKL LKERKEMFVY LSTQLKKLAE AHNERLLQTP HNPISLAMTL  
KTIDGHHDKA VTQLGSMLFT RQVSGARAVP LGNVQTVSGH TFRGFMSHAD NYPCAYLNAA AAIGMKMQDV DLFIKRLDKC  
LNIVRKEQTR ASVVSGADRN KAEDADIEEM ALKLDDVLGD VGQGPAL

## 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(50):18923-7.

## DATA

### SDS-PAGE



15% SDS-PAGE (3ug)

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