

Recombinant mouse SEPSECS protein

Catalog Number: ATGP3813

PRODUCT INFORMATION

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

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

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.

Recombinant mouse SEPSECS protein

Catalog Number: ATGP3813

Amino acid Sequence

MGSSHHHHH SSGLVPRGSH MGSMNPESFA AGERRVSPAY VRQGCEARRA HEHLIRLLLE QGKCPEDGWD ESTLEFLHE
LAVMDSNNFL GNCGVGREG RVASALVARR HYRFIHGIGR SGDISAVQPK AAGSSLLNKI TNSLVLNVIK LAGVHSVASC
FVVPMATGMS LTLCFLTLRH KRPKAKYIIW PRIDQKSCFK SMVTAGFEPV VIENVLEGDE LRTDLKAVEA KIQELGPEHI
LCLHSTTACF APRVPDRLEE LAVICANYDI PHVVNNAYGL QSSKCMHLIQ QGARVGRIDA FVQSLDKNFM VPVGGAIAG
FNEPFIQDIS KMYPGRASAS PSLDVLITLL SLGCSGYRKL LKERKEMFVY LSTQLKKLAE AHNERLLQTP HNPISLAMTL
KTIDGHHDKA VTQLGSMMLT RQVSGARAVP LGNVQTVSGH TFRGFMSHAD NYP CAYLNAA AAIGMKGQDV DLFIKRLDKC
LNIVRKEQTR ASVVSGADR N KAEDADIEEM ALKLDLVLD VGQGPAL

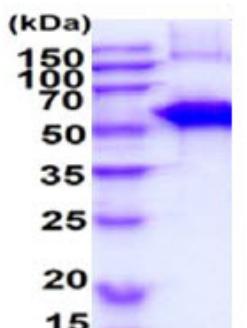
General References

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



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