Recombinant human SEPSECS protein

Catalog Number: ATGP0806

PRODUCT INFORMATION

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, Selenocysteinyl-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

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

Description
SEPSECS, also known as SLA/LP autoantigen, 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 human SEPSECS protein, fused to

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

Amino acid Sequence

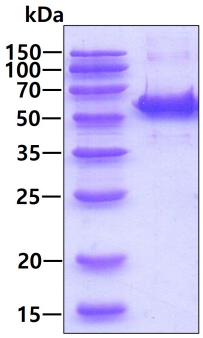
<MGSSHHHHHH SSGLVPRGSH> MNRESFAAGE RLVSPAYVRQ GCEARRSHEH LIRLLLEKGK CPENGWDEST LELFLHELAI MDSNNFLGNC GVGEREGRVA SALVARRHYR FIHGIGRSGD ISAVQPKAAG SSLLNKITNS LVLDIIKLAG VHTVANCFVV PMATGMSLTL CFLTLRHKRP KAKYIIWPRI DQKSCFKSMI TAGFEPVVIE NVLEGDELRT DLKAVEAKVQ ELGPDCILCI HSTTSCFAPR VPDRLEELAV ICANYDIPHI VNNAYGVQSS KCMHLIQQGA RVGRIDAFVQ SLDKNFMVPV GGAIIAGFND SFIQEISKMY PGRASASPSL DVLITLLSLG SNGYKKLLKE RKEMFSYLSN QIKKLSEAYN ERLLHTPHNP ISLAMTLKTL DEHRDKAVTQ LGSMLFTRQV SGARVVPLGS MQTVSGYTFR GFMSHTNNYP CAYLNAASAI GMKMQDVDLF 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.