

Recombinant Human SEPSECS, His-tagged

Cat. No. SEPSECS-931H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SEPSECS protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 57.9kDa (521aa).
Species	Human
Source	E.coli
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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT, 100mM NaCl.
Purity	> 90% by SDS - PAGE.
Concentration	0.5mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MNRESFAAGE RLVSPAYVRQ GCEARRSHEH LIRLL LEKGK CPENGWDEST LELFLHELAI MDSNNFLGNC GVGEREGRVA SALVA RRHYR FIHGIGRSGD ISAVQPKAAG SLLNKITNS LVLDIIKLAG VHTVANCVV PMATGMSLTL CFLTLRHKRP KAKYIWPRI DQKSCFKSMI TAGFEPVVIE NVLEG DELRT DLKAVEAKVQ ELGPDCILCI HSTTSCFAPR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VPDRLEELAV ICANYDIPHI VNNAYGVQSS KCMHLIQQGA RVGRIDAFVQ
SLDKNFMVPV GGAIAGFND SFIQE ISKMY PGRASASPSL DVLITLLSLG
SNGYKLLKE RKEMFSYLSN QIKKLSEAYN ERLHHTPHNP ISLAMTLKTL
DEHRDKAVTQ LGSMLFTRQV SGARVVPLGS MQTV SGYTFR
GFMSHTNNYPCAYLNAASAI GMKMQDVDLF IKRLDRCLKA VRKERS KESD
DNYDKTEDVD IEEMALKLDN VLLDTYQDAS S.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Aminoacyl-tRNA biosynthesis

GENE INFORMATION

Gene Name

SEPSECS Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase [Homo sapiens]

Synonyms

Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase; LP; SLA; SLA/LP; MGC161491; DKFZp434B1417; SEPSECS; O-phosphoseryl-tRNA(Sec) selenium transferase; SLA-p35; sec synthase; OTTHUMP00000218475; SLA/LP autoantigen; soluble liver antigen; liver-pancreas antigen; selenocysteine synthase; sep-tRNA:Sec-tRNA synthase; selenocysteinyl-tRNA(Sec) synthase; UGA suppressor tRNA-associated protein; tRNA(Ser/Sec)-associated antigenic protein; soluble liver antigen/liver pancreas antigen; Selenocysteinyl-tRNA(Sec) synthase; Liver-pancreas antigen; Sep-tRNA:Sec-tRNA synthase; Sec synthase; Selenocysteine synthase; Soluble liver antigen; TRNP48; EC 2.9.1.2; SepSecS

Gene ID

51091

mRNA Refseq

NM_016955

Protein Refseq

NP_058651

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MIM	613009
UniProt ID	Q9HD40
Chromosome Location	4p15.2
Function	protein binding; pyridoxal phosphate binding; tRNA binding; transferase activity

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