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**Product Data Sheet**


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Product Name: SEPSECS Human

Cat. No.: GP22243

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	SLA; SLA/LP autoantigen; SLA-p35; Selenocysteinyl-tRNA(Sec) synthase; Selenocysteine synthase; Liver-pancreas antigen; Soluble liver antigen; Sec synthase; UGA suppressor tRNA-associated protein.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MNRESFAAGE RLVSPAYVRQ GCEARRSHEH LIRLLLEK GK CPENGWDEST LELFLHELAI MDSNNFLGNC GVGEREGRVA SALVARRHYR FIHGIGRSGD ISAVQPKAAG SLLNKITNS LVLDIIKLAG VHTVANCFVV PMATGMSLTL CFLTLRHKRP KAKYIWPRI DQKSCFKSMI TAGFEPVIE NVLEGDELRT DLKAVEAKVQ ELGPDCILCI HSTTSCFAPR VPDRLEELAV ICANYDIPHI VNNAYGVQSS KCMHLIQGA RVGRIDAFVQ SLDKNFMVPV GGAIAGFND SFIQEISKMY PGRASASPSL DVLITLLSLG SNGYKLLKE RKEMFSYLSN QIKKLSEAYN ERLHPTPHNP ISLAMTLKTL DEHRDKAVTQ LGSMLFTRQV SGARVVPLGS MQTVSGYTFR GFMSHTNNYP CAYLNAASAI GMKMQDVDF IKRLDRCLKA VRKERSKESD DNYDKTEDVD IEEMALKLDN VLLDTYQDAS S.		
Formulation	The SEPSECS protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 1mM DTT, 100mM NaCl and 10% glycerol.		

**Introduction**

SEPSECS catalyzes the last step of sec synthesis by way of converting O-phosphoseryl-tRNA(sec) to selenocysteinyl-tRNA(sec) using selenophosphate as the selenium donor. Furthermore, SEPSECS protein is considered a specific marker of autoimmune hepatitis.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles

### Background

SEPSECS produced in E.Coli is a single, non-glycosylated polypeptide chain containing 521 amino acids (1-501a.a.) and having a molecular mass of 57.9kDa. SEPSECS is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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