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**Product Data Sheet**


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Product Name: SEPSECS Mouse  
 Cat. No.: GP22244  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	AA986712; D5Erttd135e; SecS; 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; SepSecS.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMPESFA AGERRVSPAY VRQGCEARRA HEHLIRLLLE QGKCPEDGWD ESTLELFLHE LAVMDSNNFL GNCGVGEREG RVASALVARR HYRFIHGIGR SGDISAVQPK AAGSSLLNKI TNSLVLVNIK LAGVHSVASC FVVPMATGMS LTLCLTLRHKRPKAKYIIW PRIDQKSCFK SMVTAGFEPV VIENVLEGDE LRTDLKAVEA KIQELGPEHI LCLHSTTACF APRVPDRLEE LAVICANYDI PHVVNNAYGL QSSKCMHLIQ QGARVGRIDA FVQSLDKNFM VPVGGAIAG FNEPFIQDIS KMYPGRASAS PSLDVLITLL SLGCSGYRKLKEMFVY LSTQLKKLAE AHNERLLQTP HNPISLAMTL KTIDGHHDKA VTQLGSMMLFT RQVSGARAVP LGNVQTVSGH TFRGFMSHAD NYPCAYLNAA AAIGMKMQDV DLFIKRLDKC LNIVRKEQTR ASVMSGADRN KAEDADIEEM ALKLDDVLGD VGQGPAL.		
Formulation	The SEPSECS protein solution (0.25 mg/ml) is formulated in 20mM Tris-HCl buffer (pH7.5) 1mM DTT, 0.2M NaCl and 50% glycerol.		

**Introduction**

SEPSECS catalyzes the last step of sec synthesis by 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

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles

### Background

SEPSECS produced in E.Coli is a single, non-glycosylated polypeptide chain containing 527 amino acids (1-504 a.a.) and having a molecular mass of 57.7kDa. SEPSECS is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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