

## SEPSECS Protein, Human, Recombinant (His)

## General Information

Synonyms:	Selenocysteine synthase (Sec synthase); Soluble liver antigen (SLA); UGA suppressor tRNA-associated protein; Selenocysteinyl-tRNA(Sec) synthase; Liver-pancreas antigen (LP); SLA-p35; O-phosphoseryl-tRNA(Sec) selenium transferase; SEPSECS; SLA/LP autoantigen; TRNP48; tRNA (Ser/Sec)-associated antigenic protein; Sep-tRNA:Sec-tRNA synthase (SepSecS)
Protein Construction:	1-501 aa
Species:	Human
Expression Host:	P. pastoris (Yeast)
Accession:	Q9HD40
Molecular Weight:	56.5 kDa (predicted)
AA Sequence:	MNRESFAAGERLVSPAYVRQGCEARRSHEHLIRLLLEKGGKCPENGWDESTLELFLHELAIMDSNNFLGNCGV GEREGRVASALVARRHYRFIHGIGRSGDISAVQPKAAGSLLNKITNSLVLDIILKAGVHTVANCFVVPMATGM SLTLCFLTLRHKRPKAKYIIWPRIDQKSCFKSMITAGFEPVVIENVLEGDELRTDLKAVEAKVQELGPDICILCIHST TSCFAPRVPDRLEELAVICANYDIPHIVNNAYGVQSSKCMHLIQQGARVGRIDAFVQSLDKNFMVPGGAIIA GFNDSFIQEISKMYPRGRASASPLDLITLLSLGNGYKLLKERKEMFSYLSNQIKLSEAYNERLLHTPHNPIS LAMTLKTLDEHRDKAVTQLGSMFLTRQVSGARVVPLGSMQTVSGYTFRFGMSHTNNYPCAYLNAASAIGMK MQDVDFIKRLDRCLKAVRKERSKESDDNYDKTEDVDIEEMALKLDNVLLDITYQDASS

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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**Protein Background**

Converts O-phosphoseryl-tRNA(Sec) to selenocysteinyl-tRNA(Sec) required for selenoprotein biosynthesis.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481