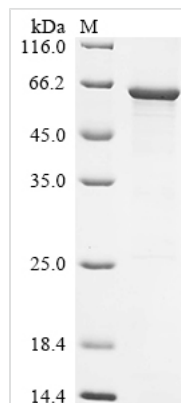




Recombinant Human O-phosphoseryl-tRNA (Sec) selenium transferase (SEPSECS)

Product Code	CSB-EP888032HU
Abbreviation	Recombinant Human SEPSECS protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9HD40
Form	Liquid or Lyophilized powder
Storage Buffer	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.
Product Type	Recombinant Human O-phosphoseryl-tRNA(Sec) selenium transferase(SEPSECS)
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MNRESFAAGERLVSPAYVRQGCEARRSHEHLIRLLLEKKGKCPENGWDESTLE LFLHELAIMDSNNFLGNCVGEREGRVASALVARRHYRFIHGIGRSGDISAVQ PKAAGSSLLNKITNSLVLDIIKLAGVHTVANCFFVPMATGMSLTLCFLTLRHKRP KAKYIIWPRIDQKSCFKSMITAGFEPVVIENVLEGDELRTDLKAVEAKVQELGPD CILCIHSTTSCFAPRVPDRLEELAVICANYDIPHIVNNAYGVQSSKCMHLIQQGA RVGRIDAFVQSLDKNFMVPVGGAIAGFNDSFIQEISKMYPGRASASPSLDVLIT LLSLGSNGYKLLKERKEMFSYLSNQIKKLSEAYNERLLHTPHNPISLAMTLKTL DEHRDKAVTQLGSMLFTRQVSGARVVPLGSMQTVSGYTFRGFMSHTNNYPC AYLNAASAIGMKMQDVDLFIKRLDRCLKAVRKERSKESDDNYDKTEDVDIEEM ALKLDNVLLDTYQDASS
Research Area	Metabolism
Source	E.coli
Target Names	SEPSECS
Expression Region	1-501aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	63.2 kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The production of the recombinant human O-phosphoseryl-tRNA(Sec) selenium transferase (SEPSECS) follows a well-defined process within the E. coli expression system. Initially, the gene fragment encoding the full-length SEPSECS protein (amino acids 1-501) is inserted into a suitable expression vector. This vector is designed to include an N-terminal 10xHis-tag and a C-terminal Myc-tag, which aids in the purification and detection of the recombinant protein. Through transformation, the recombinant expression vector is introduced into E. coli cells, followed by the selection of the transformed cells. Subsequently, the transformed cells are cultured in an optimized growth medium to facilitate efficient protein expression. Induction of protein production is achieved by the addition of a specific inducer, such as IPTG. The cells are harvested and lysed to release the intracellular contents containing the recombinant SEPSECS protein. The purity of the recombinant SEPSECS protein is rigorously assessed through SDS-PAGE, reaching up to 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.