

Product datasheet for **TP760782**

SEPSECS (NM_016955) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human Sep (O-phosphoserine) tRNA:Sec (selenocysteine) tRNA synthase (SEPSECS), full length, with N-terminal HIS tag, expressed in E. coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding human full-length SEPSECS
Tag:	N-His
Predicted MW:	55.5 kDa
Concentration:	>0.1 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1% sarkosyl, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_058651
Locus ID:	51091
UniProt ID:	Q9HD40
RefSeq Size:	5645
Cytogenetics:	4p15.2
RefSeq ORF:	1266
Synonyms:	LP; PCH2D; SLA; SLA/LP



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Summary:

The amino acid selenocysteine is the only amino acid that does not have its own tRNA synthetase. Instead, this amino acid is synthesized on its cognate tRNA in a three step process. The protein encoded by this gene catalyzes the third step in the process, the conversion of O-phosphoseryl-tRNA(Sec) to selenocysteinyl-tRNA(Sec).[provided by RefSeq, Mar 2011]

Protein Pathways:

Aminoacyl-tRNA biosynthesis

Product images: