

**SARS, 1-514aa, Human, His tag, E.coli**

**Cat.NO.: TP03852**

3th Edition

**Synonyms:**Seryl-tRNA synthetase, SERRS, SERS.

**Description:**SARS (Seryl-tRNA synthetase, cytoplasmic) belongs to the class-II aminoacyl-tRNA synthetase family. Aminoacyl-tRNA synthetases function to catalyze the aminoacylation of tRNAs by their corresponding amino acids, thus linking amino acids with tRNA-contained nucleotide triplets. This enzyme catalyzes the attachment of serine to tRNA (Ser). It is probably able to aminoacylate tRNA (Sec) with serine, to form the misacylated tRNA L-seryl-tRNA (Sec), which will be further converted into selenocysteinyl-tRNA (Sec). Recombinant human SARS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl

**Molecular Weight:**61.2kDa (537aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSMVLDLDFRVDKGGDPALIRETQEKRFKDPGLVDQLVKADSEWRRRCRFRA  
DNLNKLKLNLCSTIGEKMKKKEPVGDDDESPENVLSFDDLTADALANLKVSQIKKVRLLIDEAILKCD AERIKLEAERF  
ENLREIGNLLHPSVPISNDEEDVDNKVERIWGDCTVRKKYSHVDLVVMVDGFEGEKGAVVAGSRGYFLKGVLVFLAQ  
ALIQYALRTLGSRGYIPIYTPFFMRKEVMQEVAQLSQFDEELYKVIKKGSEKSDDNSYDEKYLIATSEQPIAALHRDE  
WLRPEDLPIKYAGLSTCFRQEVGSHGRDTRGIFRVHQFEKIEQFVYSSPHDNKSWEMFEEMITTAEEFYQSLGIPY  
HIVNIVSGSLNHAASKKLDLEAWFPGSGAFRELVSCSNCTDYQARRLRIRYGQTKKMMDKVEFVHMLNATMCATT  
RTICAILENYQTEKGITVPEKLKEFMPPGLQELIPFVKPAIEQEPSKKQKKQHEGSKKKAARDVTLENRLQNMEVT  
DA

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.