

Recombinant Human Seryl-TRNA Synthetase, His-tagged

Cat. No. SARS-1572H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SARS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
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).
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl.
Molecular Weight	61.2 kDa (537aa)
Purity	>90% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino	MGSSHHHHHH SSGLVPRGSH MGSMVLDLDL FRVDKGGDPA LIRETQEKRF

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acids

KDPGLVDQLV KADSEWRRRCR FRADNLNKLK NLCSKTIGEK MKKKEPVGDD
 ESVPENVLSF DDLTADALAN LKVSQIKKVR LLIDEAILKC DAERIKLEAE
 RFENLREIGN LLHPSVPISN DEDVDNKVER IWGDCTVRKK YSHVDLVVMV
 DGFEGEKGAV VAGSRGYFLK GVLVFLEQAL IQYALRTLGS RGYIPIYTPF
 FMRKEVMQEV AQLSQFDEEL YKVIGKGSEK SDDNSYDEKY LIATSEQPIA
 ALHRDEWLRP EDLPIKYAGL STCFRQEVGS HGRDTRGIFR VHQFEKIEQF
 VYSSPHDNKS WEMFEEMITT AEEFYQSLGI PYHIVNIVSG SLNHAASKKL
 DLEAWFPGSG AFRELVSCSN CTDYQARRLR IRYGQTKKMM DKVEFVHMLN
 ATMCATTRTI CAILENYQTE KGITVPEKLL EFMPPGLQEL IPFVKPAPIE
 QEPSKKQKKQ HEGSKKKAAA RDVTLENRLQ NMEVTDA

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.

Pathways

Aminoacyl-tRNA biosynthesis; Cytosolic tRNAaminoacylation; Gene Expression; tRNAaminoacylation

GENE INFORMATION

Gene Name

SARS seryl-tRNA synthetase [Homo sapiens]

Official Symbol

SARS

Synonyms

SARS; seryl-tRNA synthetase; SERS; SERRS; FLJ36399; seryl-tRNA synthetase, cytoplasmic; OTTHUMP00000013432; OTTHUMP00000013500; Seryl-tRNA^{Ser}/Sec synthetase; seryl-tRNA(Ser/Sec) synthetase; serine tRNA ligase 1, cytoplasmic; Serine--tRNA ligase; serine-tRNA ligase; EC 6.1.1.11; SerRS

Gene ID

6301

mRNA Refseq

NM_006513

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Protein Refseq	NP_006504
MIM	607529
UniProt ID	P49591
Chromosome Location	11p13.3
Function	ATP binding; RNA binding; ligase activity; nucleotide binding; serine-tRNA ligase activity

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