

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 SSSLVPRGSH MGSMVLDL DL FRVDKGGDPA LIRETQEKRF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

acids

KDPGLVDQLV KADSEWRRCR FRADNLNKLK NLCSKTIGEK MKKKEPVGDD
 ESVPENVLSF DDLTADALAN LKVSQIKKVR LLIDEAILKC DAERIKLEAE
 RFENLREIGN LLHPSVPISN DEDVDNKVER IWGDCTVRKK YSHVDLVVMV
 DGFEGEKGAV VAGSRGYFLK GVLVFLEQAL IQYALRTLGS RGYIPIYTPF
 FMRKEVMQEV AQLSQFDEEL YKVIKKGSEK SDDNSYDEKY LIATSEQPIA
 ALHRDEWLRP EDLPIKYAGL STCFRQEVGS HGRDTRGIFR VHQFEKIEQF
 VYSSPHDNKS WEMFEEMITT AEEFYQSLGI PYHIVNIVSG SLNHAASKKL
 DLEAWFPGSG AFRELVSCSN CTDYQARRLR IRYGQTKKMM DKVEFVHMLN
 ATMCATTRTI CAILENYQTE KGITVPEKLN 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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