

Recombinant human SARS protein

Catalog Number: ATGP1357

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-514aa

UniProt No.

P49591

NCBI Accession No.

NP_006504

Alternative Names

Seryl-tRNA synthetase, SERRS, SERS

PRODUCT SPECIFICATION

Molecular Weight

61.2 kDa (537aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

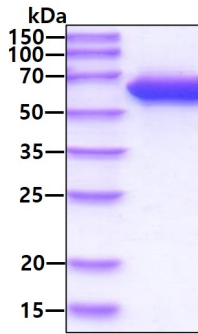
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RFENLREIGN LLHPSVPISN DEDVDNKVER IWGDCTVRKK YSHVDLVVMV DGFEGEKAV VAGSRGYFLK GVLVFLEQAL
IQYALRTLGS RGYIPIYTPF FMRKEVMQEV AQLSQFDEEL YKVIKKGSEK SDDNSYDEKY LIATSEQPIA ALHRDEWLRP
EDLPIKYAGL STCFRQEVGS HGRDTRGIFR VHQFEKIEQF VYSSPHDNKS WEMFEEMITT AEEFYQSLGI PYHIVNIVSG
SLNHAASKKL DLEAWFPGSG AFRELVSCSN CTDYQARRLR IRYGQTKKMM DKVEFVHMLN ATMCATTRTI CAILENYQTE
KGITVPEKLL EFMPPLQEL IPFVKPAPIE QEPSKKQKKQ HEGSKKAAA RDVTLENRLQ NMEVTD

General References

Hartlein M, et al. (1995) J. Mol. Evol. 40 (5): 519-30.
Vincent C., et al. (1997) Eur. J. Biochem. 250:77-84

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.