
Product Data Sheet

Product Name: SARS Human
 Cat. No.: GP22237
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Serine--tRNA ligase cytoplasmic; Seryl-tRNA synthetase; SerRS; Seryl-tRNA(Ser/Sec) synthetase; SARS; SERS.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSMVLDL DL FRVDKGGDPA LIRETQEKRF KDPGLVDQLV KADSEWRRCR FRADNLNKLK NLCSKTIGEK MKKKEPVGDD ESPVENVLSF DDLTADALAN LKVSQIKKVR LLIDEAILKC DAERIKLEAE RFENLREIGN LLHPSVPISN DEDVDNKVER IWGDCTVRKK YSHVDLVMMV 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 KGITVPEKLL EFMPPGLQEL IPFVKPAPIE QEPSKKQKKQ HEGSKKAAA RDVTLENRLQ NMEVTD.</p>		
Formulation	The SARS solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 100mM NaCl.		

Introduction

Seryl-tRNA synthetase, cytoplasmic (SARS) is a member of the class-II aminoacyl-tRNA synthetase family. Aminoacyl-tRNA synthetases role is to catalyze the aminoacylation of tRNAs by their corresponding amino acids, as a result linking amino acids with tRNA-contained nucleotide triplets. The SARS enzyme catalyzes the attachment of serine to tRNA (Ser). SARS enzyme is probably able to aminoacylate tRNA (Sec) with serine, to form the misacylated tRNA L-seryl-tRNA (Sec), which will be then converted into selenocysteinyl-tRNA (Sec).

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

SARS Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 537 amino acids (1-514) and having a molecular mass of 61.2kDa. SARS is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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