

Datasheet for ABIN7544176

Seryl-tRNA Synthetase (SARS) (AA 1-514) protein (His tag)[Go to Product page](#)

Overview

Quantity: 1 mg

Target: Seryl-tRNA Synthetase (SARS)

Protein Characteristics: AA 1-514

Origin: Human

Source: HEK-293 Cells

Protein Type: Recombinant

Purification tag / Conjugate: His tag

Product Details

Purpose: Custom-made recombinant SARS1 Protein expressed in mammalian cells.

Sequence: MVLDDLFRV DKGDPALIR ETQEKRFKDP GLVDQLVKAD SEWRRRCRFRA DNLNKLKNLK
SKTIGEKMKK KEPVGDDESV PENVLSFDDL TADALANLKV SQIKKVRLLI DEAILKCDAE
RIKLEAERFE NLREIGNLLH PSVPISNDED VDNKVERIWG DCTVRKKYSH VDLVVMVDGF
EGEKGAVVAG SRGYFLKGV L VFLEQALI QY ALRTLGSRGY IPIYTPFFMR KEVMQEVAQL
SQFDEELYKV IGGKSEKSDD NSYDEKYLIA TSEQPIAALH RDEWLRPEDL PIKYAGLSTC
FRQEVGSHGR DTRGIFRVHQ FEKIEQFVYS SPHDNKS WEM FEEMITTAEE FYQSLGIPYH
IVNIVSGSLN HAASKKLDLE AWFPGSGAFR ELVSCSNCTD YQARRLRIRY GQTKKMMDKV
EFVHMLNATM CATTRTICAI LENYQTEKGI TVPEKLKEFM PPGLQELIPF VKPAPIEQEP
SKKQKKQHEG SKKKAARDV TLENRLQNME VTDA **Sequence without tag. The proposed
Purification-Tag is based on experiences with the expression system, a different complexity
of the protein could make another tag necessary. In case you have a special request, please
contact us.**

Product Details

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: Seryl-tRNA Synthetase (SARS)

Alternative Name: SARS1 ([SARS Products](#))

Background: Serine-tRNA ligase, cytoplasmic (EC 6.1.1.11) (Seryl-tRNA synthetase) (SerRS) (Seryl-tRNA(Ser/Sec) synthetase),FUNCTION: Catalyzes the attachment of serine to tRNA(Ser) in a two-step reaction: serine is first activated by ATP to form Ser-AMP and then transferred to the acceptor end of tRNA(Ser) (PubMed:22353712, PubMed:24095058, PubMed:9431993, PubMed:26433229, PubMed:28236339, PubMed:34570399, PubMed:36041817). Is probably also 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) (PubMed:9431993, PubMed:26433229, PubMed:28236339, PubMed:34570399). In the nucleus, binds to the VEGFA core promoter and prevents MYC binding and transcriptional activation by MYC (PubMed:24940000). Recruits SIRT2 to the VEGFA promoter, promoting deacetylation of histone H4 at 'Lys-16' (H4K16). Thereby, inhibits the production of VEGFA and sprouting

Target Details

angiogenesis mediated by VEGFA (PubMed:19423848, PubMed:19423847, PubMed:24940000).
{ECO:0000269|PubMed:19423847, ECO:0000269|PubMed:19423848,
ECO:0000269|PubMed:22353712, ECO:0000269|PubMed:24095058,
ECO:0000269|PubMed:24940000, ECO:0000269|PubMed:26433229,
ECO:0000269|PubMed:28236339, ECO:0000269|PubMed:34570399,
ECO:0000269|PubMed:36041817, ECO:0000269|PubMed:9431993}.

Molecular Weight: 58.8 kDa

UniProt: [P49591](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months