

Recombinant Human SARS2 Protein, His-tagged

Cat. No. SARS2-2673H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SARS2 Protein (Leu242-Ser518) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Leu242-Ser518
Description	This gene encodes the mitochondrial seryl-tRNA synthetase precursor, a member of the class II tRNA synthetase family. The mature enzyme catalyzes the ligation of Serine to tRNA(Ser) and participates in the biosynthesis of selenocysteinyl-tRNA(sec) in mitochondria. The enzyme contains an N-terminal tRNA binding domain and a core catalytic domain. It functions in a homodimeric form, which is stabilized by tRNA binding. This gene is regulated by a bidirectional promoter that also controls the expression of mitochondrial ribosomal protein S12. Both genes are within the critical interval for the autosomal dominant deafness locus DFNA4 and might be linked to this disease. Multiple transcript variants encoding different isoforms have been identified for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 34.4 kDa Accurate Molecular Mass: 34 kDa

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Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	SARS2 seryl-tRNA synthetase 2, mitochondrial [Homo sapiens (human)]
Official Symbol	SARS2
Synonyms	SARS2; seryl-tRNA synthetase 2, mitochondrial; SARSM, serine tRNA ligase, mitochondrial, seryl tRNA synthetase 2; serine--tRNA ligase, mitochondrial; FLJ20450; mtSerRS; SARS; serine tRNA ligase 2; mitochondrial; SerRSmt; SERS; SYS; seryl-tRNA(Ser/Sec) synthetase; serine-tRNA ligase, mitochondrial; mitochondrial seryl-tRNA synthetase; serine tRNA ligase 2, mitochondrial; seryl-tRNA synthetase, mitochondrial; SARSM; SerRS;

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Gene ID	54938
mRNA Refseq	NM_001145901
Protein Refseq	NP_001139373
MIM	612804
UniProt ID	Q9NP81

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