abcam

Product datasheet

Recombinant Human Seryl-tRNA synthetase/SERS protein ab116194

1 Image

Description

Product name	Recombinant Human Seryl-tRNA synthetase/SERS protein
Purity	> 90 % SDS-PAGE. ab116194 was purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	P49591
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	**MGSSHHHHHHSSGLVPRGSHMGS**MVLDLDLFRVDKGG DPALIRETQEKRF KDPGLVDQLVKADSEWRRCRFRADNLNKLKNLCSKTIGE KMKKKEPVGDD ESVPENVLSFDDLTADALANLKVSQIKKVRLLIDEAILKCD AERIKLEAE RFENLREIGNLLHPSVPISNDEDVDNKVERIWGDCTVRKK YSHVDLVVMV DGFEGEKGAVVAGSRGYFLKGVLVFLEQALIQYALRTLGS RGYIPIYTPF FMRKEVMQEVAQLSQFDEELYKVIGKGSEKSDDNSYDEK YLIATSEQPIA ALHRDEWLRPEDLPIKYAGLSTCFRQEVGSHGRDTRGIFR VHQFEKIEQF VYSSPHDNKSWEMFEEMITTAEEFYQSLGIPYHIVNIVSGS LNHAASKKL DLEAWFPGSGAFRELVSCSNCTDYQARRLRIRYGQTKKM MDKVEFVHMLN ATMCATTRTICAILENYQTEKGITVPEKLKEFMPPGLQELIP FVKPAPIE QEPSKKQKKQHEGSKKKAAARDVTLENRLQNMEVTDA
Predicted molecular weight	61 kDa including tags
Amino acids	1 to 514

Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab116194** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid
Additional notes	This product was previously labelled as Seryl-tRNA synthetase

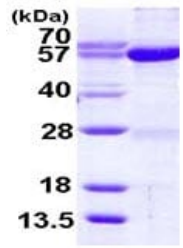
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.02% DTT, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

General Info

Function	Catalyzes the attachment of serine to tRNA(Ser). Is also 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).
Pathway	Aminoacyl-tRNA biosynthesis; selenocysteinyl-tRNA(Sec) biosynthesis; L-seryl-tRNA(Sec) from L-serine and tRNA(Sec): step 1/1.
Sequence similarities	Belongs to the class-II aminoacyl-tRNA synthetase family. Type-1 seryl-tRNA synthetase subfamily.
Domain	Consists of two distinct domains, a catalytic core and a N-terminal extension that is involved in tRNA binding.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Cytoplasm.

Images



SDS-PAGE - Recombinant Human Seryl-tRNA synthetase/SERS protein (ab116194)

15% SDS-PAGE showing ab116194 at approximately 61.2kDa (3µg).

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