

Datasheet for ABIN1637111  
**KARS Protein (AA 1-496) (His tag)**



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## Overview

|                               |                                             |
|-------------------------------|---------------------------------------------|
| Quantity:                     | 1 mg                                        |
| Target:                       | KARS                                        |
| Protein Characteristics:      | AA 1-496                                    |
| Origin:                       | Streptococcus mutans                        |
| Source:                       | Yeast                                       |
| Protein Type:                 | Recombinant                                 |
| Purification tag / Conjugate: | This KARS protein is labelled with His tag. |
| Application:                  | ELISA                                       |

## Product Details

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|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sequence:        | MSHQHTEELN DQQIVRREKM EALTEQGIDP FGKRFERTAT SGQLKEKYAD KTKEELHDIN<br>ETATIAGRML TKRGKGKVG F AHLQDREGQI QIYVRKDTVG DDNYQIFKKA DIGDFLGVEG<br>EIMRTDMGEL SIKATHITHL SKALRPLPEK FHGLTDVETI YRKRYLDLIS NRESLERFIT RSKIISEIRR<br>YLDGLGFLEV ETPVLHNEAG GAAAKPFTTH HNAQDMDMVL RIATELHLKR LIVGGMERVY<br>EMGRIFRNEG MDATHNPEFT SIEVYQAYAD FEDIMDLTEG IVQHAATAVK GDGPITYQGT<br>EIKINEPFKR AHIVDLIKEV TGVDFWKEMT LAEAQALAE KNPVLEKHYT SVGHIINAF<br>EEFVEETLIQ PIFVYGHPVE VSPLAKKNAD DPRFTDRFEL FIMTKEYGNA FTELNDPIDQ<br>LERFKAQAAA KELGDDEATG IDYDYVEALE YGMPPTGGLG IGIDRLVMLL TDTTITRDVL LFPTMK |
| Specificity:     | Streptococcus mutans                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Characteristics: | Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalian cells or by baculovirus infection. Be aware about differences in price and lead time.                                                                                                                                                                                                                                                                                                                                                                                                |

## Product Details

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Purity: > 90 %

## Target Details

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Target: KARS

Alternative Name: Lysine-tRNA ligase (lysS) ([KARS Products](#))

Background: Recommended name: Lysine-tRNA ligase.  
EC= 6.1.1.6.  
Alternative name(s): Lysyl-tRNA synthetase.  
Short name= LysRS

UniProt: [Q8DUW8](#)

## Application Details

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Comment: The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modiflicated such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies.

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Concentration: 0.2-2 mg/mL

Buffer: Tris-based buffer, 50 % glycerol

Handling Advice: Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week

Storage: -20 °C

## Handling

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Storage Comment: Store at -20 °C, for extended storage, conserve at -20 °C or -80 °C.