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Datasheet for ABIN1670207

## KARS Protein (AA 1-491) (His tag)

### Overview

Quantity:	1 mg
Target:	KARS
Protein Characteristics:	AA 1-491
Origin:	Chloroflexus aurantiacus
Source:	Yeast
Protein Type:	Recombinant
Purification tag / Conjugate:	This KARS protein is labelled with His tag.
Application:	ELISA

### Product Details

Sequence:	MELNDLQAQR AAKLAELRAA GLDPYPPRCY RSHTIAEALA AFDDLVAQST TLTLTGRIIG ARRIMGKIAF AHIEDGTGEI QLWLSRADLG DEWFERFRDQ LDTFDIVQAS GVLRCTKTGE RSLFVRELAI LAKAINPPPE KWAGLQDVEE RHRQRYLDLI VNRDRREIFR ARARVISTMR RVLDERGFLE VETPVLQPLY GGAAARPFIT YHNALGQONLY LRIATELYLK RLIVGGFPGV YEIGKNFRNE GVDRSHNPEF TMMECYQAYA DYHAMMTLVE EMLSEICLAV HGTTTTITYQG RELDFRPPWP RIAMATAIAD RTGIDITQIT DLDALQEAIS ARGLRVERKA SWAKQVDELF SEFVQPHLFQ PTFIIDYPVA MSPLAKRIPD RPDFTERFEA FIAGMEIGNA FTELNDPFDQ EERFREQLRA FAAGDEEAHQ MDEDFINALR YGMPPTGGLG VGIDRLVMVL TDQSNIREVI LFPHLRERSD E
Specificity:	Chloroflexus aurantiacus (strain ATCC 29366 / DSM 635 / J-10-fl)
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

Purity: > 90 %

## Target Details

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: [A9WK04](#)

## Application Details

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 modified 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

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.