Recombinant human KARS protein

Catalog Number: ATGP1166

PRODUCT INFORMATION

Expression system
E.coli

Domain
63-597aa

UniProt No.
Q15046

NCBI Accession No.
NP_005539.1

Alternative Names
Lysyl-tRNA synthetase, CMTRIB, KARS2, KIAA0070, KRS

PRODUCT SPECIFICATION

Molecular Weight
63.7 kDa (558aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl,1mM DTT

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
KARS, also known as Lysyl-tRNA synthetase, belongs to the class-II aminoacyl-tRNA synthetase family. It exists as both mitochondrial and cytoplasmic isoforms produced by alternative splicing, and thought to play a role in autoimmune diseases, such as polymyositis or dermatomyositis. This protein functions to catalyze the aminoacylation of tRNAs by their corresponding amino acids, thus linking amino acids with tRNA-contained nucleotide triplets. Recombinant human KARS protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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Amino acid Sequence

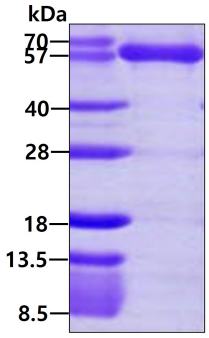
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General References

Targoff I.N. et al. (1993) J. Clin. Invest. 91: 2556-2564.
Tolkunova E. et al. (2000) J. Biol. Chem. 275: 35063-35069.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.