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Recombinant human KARS protein

Catalog Number: ATGP1166

PRODUCT INFORMATION

Expression system

E.coli

Domain

63-597aa

UniProt No.

015046

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.



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Amino acid Sequence

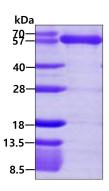
<MGSSHHHHHH SSGLVPRGSH MGS>GVGPEEE SVDPNQYYKI RSQAIHQLKV NGEDPYPHKF HVDISLTDFI QKYSHLQPGD HLTDITLKVA GRIHAKRASG GKLIFYDLRG EGVKLQVMAN SRNYKSEEEF IHINNKLRRG DIIGVQGNPG KTKKGELSII PYEITLLSPC LHMLPHLHFG LKDKETRYRQ RYLDLILNDF VRQKFIIRSK IITYIRSFLD ELGFLEIETP MMNIIPGGAV AKPFITYHNE LDMNLYMRIA PELYHKMLVV GGIDRVYEIG RQFRNEGIDL THNPEFTTCE FYMAYADYHD LMEITEKMVS GMVKHITGSY KVTYHPDGPE GQAYDVDFTP PFRRINMVEE LEKALGMKLP ETNLFETEET RKILDDICVA KAVECPPPRT TARLLDKLVG EFLEVTCINP TFICDHPQIM SPLAKWHRSK EGLTERFELF VMKKEICNAY TELNDPMRQR QLFEEQAKAK AAGDDEAMFI DENFCTALEY GLPPTAGWGM GIDRVAMFLT DSNNIKEVLL FPAMKPEDKK ENVATTDTLE STTVGTSV

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.

