

Recombinant Mouse Cars Protein, His&GST-tagged

Cat. No. Cars-615M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cars Protein (Ala2-Leu249) with His&GST tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ala2-Leu249
Description	<p>Predicted to enable several functions, including ATP binding activity; cysteine-tRNA ligase activity; and protein homodimerization activity. Predicted to be involved in cysteinyl-tRNA aminoacylation. Predicted to act upstream of or within translation. Predicted to be located in cytosol. Predicted to be active in cytoplasm. Is expressed in several structures, including alimentary system; genitourinary system; integumental system; nervous system; and sensory organ. Orthologous to human CARS1 (cysteinyl-tRNA synthetase 1).</p>
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 58.6 kDa; Accurate Molecular Mass: 59 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Cars cysteinyl-tRNA synthetase [Mus musculus (house mouse)]
Official Symbol	Cars
Synonyms	CARS; cysteinyl-tRNA synthetase; cysteine--tRNA ligase, cytoplasmic; cysRS; cysteinyl-tRNA synthetase, cytoplasmic; CA3;
Gene ID	27267
mRNA Refseq	NM_001252593
Protein Refseq	NP_001239522
UniProt ID	Q9ER72

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