

Recombinant Rat Cars2 Protein, His-tagged

Cat. No. Cars2-618R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Cars2 Protein (Phe289-Thr550) with His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Phe289-Thr550
Description	Predicted to enable ATP binding activity and cysteine-tRNA ligase activity. Predicted to be involved in cysteinyl-tRNA aminoacylation. Predicted to be active in cytoplasm. Human ortholog(s) of this gene implicated in combined oxidative phosphorylation deficiency 27. Orthologous to human CARS2 (cysteinyl-tRNA synthetase 2, mitochondrial).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 32.9 kDa; Accurate Molecular Mass: 33 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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

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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

Cars2 cysteinyl-tRNA synthetase 2, mitochondrial [*Rattus norvegicus* (Norway rat)]

Official Symbol

Cars2

Synonyms

Cars2; cysteinyl-tRNA synthetase 2, mitochondrial; RGD1311612; probable cysteine--tRNA ligase, mitochondrial; EC 6.1.1.16

Gene ID

361184

mRNA Refseq

NM_001177684

Protein Refseq

NP_001171155

UniProt ID

B2GV57

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