Recombinant Human CARS2 Protein, His-tagged

Cat. No. CARS2-617H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CARS2 Protein (Ile260-Gly564) with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ile260-Gly564
Description	This gene encodes a putative member of the class I family of aminoacyl-tRNA synthetases. These enzymes play a critical role in protein biosynthesis by charging tRNAs with their cognate amino acids. This protein is encoded by the nuclear genome but is likely to be imported to the mitochondrion where it is thought to catalyze the ligation of cysteine to tRNA molecules. A splice-site mutation in this gene has been associated with a novel progressive myoclonic epilepsy disease with similar symptoms to MERRF syndrome. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 37.7 kDa; Accurate Molecular Mass: 38 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

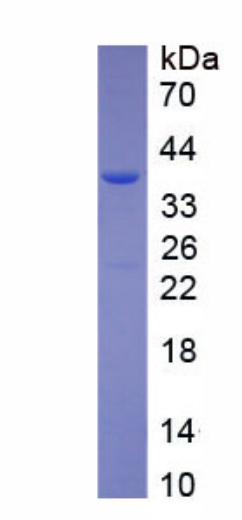
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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. 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	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CARS2 cysteinyl-tRNA synthetase 2, mitochondrial (putative) [Homo sapiens (human)]
Official Symbol	CARS2
Synonyms	CARS2; cysteinyl-tRNA synthetase 2, mitochondrial (putative); probable cysteine--tRNA ligase, mitochondrial; cysteine tRNA ligase 2; mitochondrial (putative); FLJ12118; cysRS; cysteine--tRNA ligase; cysteine tRNA ligase 2, mitochondrial (putative); probable cysteinyl-tRNA synthetase, mitochondrial; FLJ42514; DKFZp667A2315; DKFZp686G08243;
Gene ID	79587
mRNA Refseq	NM_024537

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Protein Refseq	NP_078813
MIM	612800
UniProt ID	Q9HA77
	

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