

Recombinant Human PARS2 Protein, His-tagged

Cat. No. PARS2-2550H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PARS2 Protein (Lys243-Val475) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Lys243-Val475
Description	This gene encodes a putative member of the class II 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 proline to tRNA molecules. Mutations have been found in this gene in some patients with Alpers syndrome.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29 kDa Accurate Molecular Mass: 29 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 95%

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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 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	PARS2 prolyl-tRNA synthetase 2, mitochondrial (putative) [Homo sapiens (human)]
Official Symbol	PARS2
Synonyms	PARS2; prolyl-tRNA synthetase 2, mitochondrial (putative); probable proline--tRNA ligase, mitochondrial; DKFZp727A071; proline tRNA ligase 2; mitochondrial (putative); proRS; proline--tRNA ligase; proline tRNA ligase 2, mitochondrial (putative); MT-PRORS; MGC14416; MGC19467;
Gene ID	25973
mRNA Refseq	NM_152268
Protein Refseq	NP_689481

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MIM	612036
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UniProt ID	Q7L3T8
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