Recombinant Human EARS2 Protein, His-tagged

Cat. No. EARS2-1395H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EARS2 Protein (Gly247-Ser523) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gly247-Ser523
Description	This gene encodes a 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 glutamate to tRNA molecules. Mutations in this gene have been associated with combined oxidative phosphorylation deficiency 12 (COXPD12). Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 34.8 kDa Accurate Molecular Mass: 34 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	EARS2 glutamyl-tRNA synthetase 2, mitochondrial (putative) [Homo sapiens (human)]
Official Symbol	EARS2
Synonyms	EARS2; glutamyl-tRNA synthetase 2, mitochondrial (putative); probable glutamate--tRNA ligase, mitochondrial; glutamate tRNA ligase 2; mitochondrial (putative); KIAA1970; MSE1; gluRS; glutamate--tRNA ligase; glutamate tRNA ligase 2, mitochondrial; probable glutamyl-tRNA synthetase, mitochondrial;
Gene ID	124454
mRNA Refseq	NM_001083614
Protein Refseq	NP_001077083
MIM	612799

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UniProt ID	Q5JPH6

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