

Recombinant Human NARS2 Protein, His-tagged

Cat. No. NARS2-2477H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NARS2 Protein (Ile276-Leu477) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ile276-Leu477
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 asparagine to tRNA molecules. Mutations in this gene have been associated with combined oxidative phosphorylation deficiency 24 (COXPD24).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27 kDa Accurate Molecular Mass: 27 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	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	NARS2 asparaginyl-tRNA synthetase 2, mitochondrial (putative) [Homo sapiens (human)]
Official Symbol	NARS2
Synonyms	NARS2; asparaginyl-tRNA synthetase 2, mitochondrial (putative); probable asparagine--tRNA ligase, mitochondrial; asparagine tRNA ligase 2; mitochondrial (putative); FLJ23441; SLM5; asparagine--tRNA ligase; asparagine tRNA ligase 2, mitochondrial (putative); probable asparaginyl-tRNA synthetase, mitochondrial; asnRS;
Gene ID	79731

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mRNA Refseq	NM_001243251
Protein Refseq	NP_001230180
MIM	612803
UniProt ID	Q96I59

