

Recombinant Human WARS2 protein, His & T7-tagged

Cat. No. WARS2-1273H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human WARS2 aa. (Met1~Leu360 (Accession # Q9UGM6) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Leu360
Description	Aminoacyl-tRNA synthetases catalyze the aminoacylation of tRNA by their cognate amino acid. Because of their central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Two forms of tryptophanyl-tRNA synthetase exist, a cytoplasmic form, named WARS, and a mitochondrial form, named WARS2. This gene encodes the mitochondrial tryptophanyl-tRNA synthetase. Two alternative transcripts encoding different isoforms have been described.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 43.8kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>90%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Characteristic	The isoelectric point is 9.3.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.

GENE INFORMATION

Gene Name	WARS2 tryptophanyl tRNA synthetase 2, mitochondrial [Homo sapiens (human)]
Official Symbol	WARS2
Synonyms	WARS2; tryptophanyl tRNA synthetase 2, mitochondrial; TrpRS; tryptophan--tRNA ligase, mitochondrial; (Mt)TrpRS; tryptophan tRNA ligase 2, mitochondrial
Gene ID	10352
mRNA Refseq	NM_015836.3

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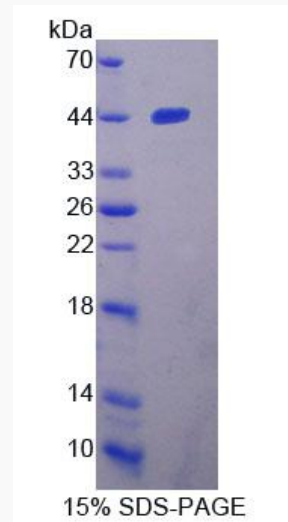
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Protein Refseq NP_056651.1

UniProt ID Q9UGM6

SDS-PAGE



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