# Recombinant Human WARS Protein, His-tagged

**Cat. No.** WARS-164H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human WARS, transcript variant 1, fused with His tag at N-terminal was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **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. Tryptophanyl-tRNA synthetase (WARS) catalyzes the aminoacylation of tRNA(trp) with tryptophan and is induced by interferon. Tryptophanyl-tRNA synthetase belongs to the class I tRNA synthetase family. Four transcript variants encoding two different isoforms have been found for this gene. |
| **Form** | Supplied as a 0.2 μm filtered solution of 20mM TrisHCl, 1mM DTT, 100mM NaCl, 1mM DTT, 10% Glycerol, pH8.0 |
| **Molecular Mass** | 55kD |
| **AA Sequence** | MGSSHHHHHHSSGLVPRGSHMPNSEPASLLELFNSIATQGELVRSLKAGNASKDEI DSAVKMLVS LKMSYKAAAGEDYKADCPPGNPAPTSNHGPDATEAEEDFVDPWTV QTSSAKGIDYDKLIVRFGSS KIDKELINRIERATGQRPHHFLRRGIFFSHRDMNQVLD |

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| | AYENKKPFYLYTGRGPSSEAMHVGHLI PFIFTKWLQDVFNVPLVIQMTDDEKYLWK DLTLDQAYSYAVENAKDIIACGFDINKT |
| **Endotoxin** | Endotoxin level is <0.1 ng/μg of protein (<1EU/μg). |
| **Purity** | >95% as determined by SDS-PAGE and Coomassie blue staining |

## GENE INFORMATION

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| **Gene Name** | WARS tryptophanyl-tRNA synthetase [ Homo sapiens ] |
| **Official Symbol** | WARS |
| **Synonyms** | WARS; tryptophanyl-tRNA synthetase; IFI53; tryptophan--tRNA ligase, cytoplasmic; IFP53; tryptophan tRNA ligase 1; cytoplasmic; hWRS; trpRS; interferon-induced protein 53; tryptophan tRNA ligase 1, cytoplasmic; GAMMA-2; |
| **Gene ID** | 7453 |
| **mRNA Refseq** | NM_004184 |
| **Protein Refseq** | NP_004175 |
| **MIM** | 191050 |
| **UniProt ID** | P23381 |

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