

Recombinant Human WARS Protein, His-tagged

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

SPECIFICATION

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	<p>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.</p> <p>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.</p>
Form	Supplied as a 0.2 µ filtered solution of 20mM TrisHCl, 1mM DTT, 100mM NaCl, 1mM DTT, 10% Glycerol, pH8.0
Molecular Mass	55kD
AA Sequence	<p>MGSSHHHHHHSSGLVPRGSHMPNSEPASLLELFNSIATQGELVRS LKAGNASKDEI DSAVKMLVS LKMSYKAAAGEDYKADCPPGNPAPTSNHGPDATEAEEDFVDPWTV QTSSAKGIDYDKLIVRFGSS KIDKELINRIERATGQRPHHFLRRGIFFSHRDMNQVLD</p>

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AYENKKPFYLYTGRGPSSEAMHVGHLI PFIFTKWLQDVFNVPLVIQMTDDEKYLWK
DLTLDQAYSYAVENAKDIIACGFDINKT

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

GENE INFORMATION

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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