

## Recombinant Human WARS, His-tagged

Cat. No. WARS-30746TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human Tryptophanyl tRNA synthetase , with N terminal His-tag; 491 amino acids with predicted MWt 55.3kDa inclusive of tag;
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	471 amino acids
<b>Description</b>	<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. 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>
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	55.300kDa inclusive of tags
<b>Form</b>	Liquid

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<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	<p>MGSSHHHHHSSGLVPRGSHMPNSEPASLLELFNSIATQGELVRSCLKAGNASKDEI            DSAVKMLVSLKMSYKAAAGEDYKADCPPGNPAPTSNHGPDATEAEEDFVDPWTVQ            TSSAKGIDYDKLIVRFGSSKIDKELINRIERATGQRPHHFLRRGIFFSHRDMNQVLDAY            ENKKPFYLYTGRGPSSEAMHVGHLIPFIFTKWLQDVFNVPLVIQMTDDEKYLWKDLT            LDQAYSYAVENAKDIIACGFDINKTFIFSDLDYMGMSGFYKNVVKIQKHVTFNQVKG            IFGFTDSDCIGKISFPAIQAAPSFSNSFPQIFRDRTDIQCLIPCAIDQDPYFRMTRDVAP            RIGYPKPALLHSTFFPALQGAQTKMSASDPNSSIFLTDATAKQIKTKVNKHAFSGGRDT            IEEHRQFGGNCDVDVSFMYLTFLEDDDKLEQIRKDYTSGAMLTGELKKALIEVLQPL            IAEHQARRKEVTDEIVKEFMTPRKLSFDFQ</p>
<b>Sequence Similarities</b>	Belongs to the class-I aminoacyl-tRNA synthetase family. Contains 1 WHEP-TRS domain.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">WARS tryptophanyl-tRNA synthetase [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">WARS</a>
<b>Synonyms</b>	WARS; tryptophanyl-tRNA synthetase; IFI53; tryptophanyl-tRNA synthetase, cytoplasmic; IFP53; tryptophan tRNA ligase 1; cytoplasmic;
<b>Gene ID</b>	<a href="#">7453</a>

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<b>mRNA Refseq</b>	NM_004184
<b>Protein Refseq</b>	NP_004175
<b>MIM</b>	191050
<b>Uniprot ID</b>	P23381
<b>Chromosome Location</b>	14q32.2
<b>Pathway</b>	Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Cytosolic tRNA aminoacylation, organism-specific biosystem;
<b>Function</b>	ATP binding; aminoacyl-tRNA ligase activity; ligase activity; nucleotide binding; protein binding;

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