

Recombinant Human WARS, His-tagged

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

SPECIFICATION

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

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

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mRNA Refseq	NM_004184
Protein Refseq	NP_004175
MIM	191050
Uniprot ID	P23381
Chromosome Location	14q32.2
Pathway	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;
Function	ATP binding; aminoacyl-tRNA ligase activity; ligase activity; nucleotide binding; protein binding;

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