

# Recombinant Human WARS Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** WARS-3046H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	WARS MS Standard C13 and N15-labeled recombinant protein (NP_776049) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<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.</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>
<b>Molecular Mass</b>	53.2 kDa
<b>AA Sequence</b>	<p>MPNSEPASLLELFNSIATQGELVRSCLKAGNASKDEIDSAVKMLVSLKMSYKAAAGED            YKADCPPGNPAPTSNHGPDATEAEEDFVDPWTVQTSSAKGIDYDKLIVRFGSSKIDK            ELINRIERATGQRPHHFLRRGIFFSHRDMNQVLDAYENKKPFYLYTGRGPSSEAMHV            GHLIPFIFTKWLQDVFNVPLVIQMTDDEKYLWKDLTLDQAYSAYAVENAKDIIACGFDIN</p>

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KTFIFSDLDYMGMSGFYKNVVKIQKHVTFNQVKGIFGFTDSDCIGKISFPAIQAAPSF  
 SNSFPQIFRDRDIIQCLIPCAIDQDPYFRMTRDVAPRIGYKPKALLHSTFFPALQGAQ  
 TKMSASDPNSSIFLTDTAKQIKTKVNHAFSGGRDTIEEHRQFGGNCDDVDSFMYLT  
 FFLEDDDKLEQIRKDYTSGAMLTGELKKALIEVLQPLIAEHQARRKEVTDEIVKEFMTP  
 RKLSFDFQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** [WARS tryptophanyl-tRNA synthetase \[ Homo sapiens \(human\) \]](#)

**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\\_173701](#)

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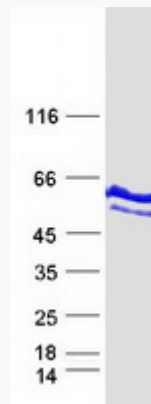
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**Protein Refseq**      NP\_776049

**MIM**                    191050

**UniProt ID**            P23381

**SDS-PAGE**



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