

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

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

SPECIFICATION

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

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KTFIFSDLDYMGMSGFYKNVVKIQKHVTFNQVKGIFGFTDSDCIGKISFPAIQAAPSF
 SNSFPQIFRDRTDIQCLIPCAIDQDPYFRMTRDVAPRIGYPKPALLHSTFFPALQGAQ
 TKMSASDPNSSIFLTD TAKQIKTKV NKHAFSGGRDTIEEHRQFGGNCDDVDVSFMYLT
 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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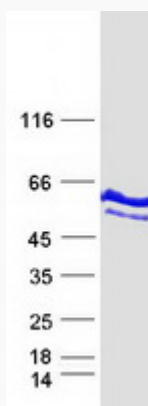
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Protein Refseq NP_776049

MIM 191050

UniProt ID P23381

SDS-PAGE



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