

Recombinant Full Length Human WARS1 Protein, C-Flag-tagged

Cat. No. WARS1-1851HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human WARS1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	53 kDa
AA Sequence	MPNSEPASLLELFNSIATQGELVRSLKAGNASKDEIDSAVKMLVSLKMSYKAAAGED YKADCPPGNPAPT SNHGPDTEAEEDFVDPWTVQTSSAKGIDYDKLIVRFGSSKID KELINRIERATGQRPHHFLRRGIFFSH RDMNQVLDAYENKKPFYLYTGRGPSSEAM

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HVGHLPFIFTKWLQDVFNVPLVIQMTDDEKYLWKDLTLDQ AYSYAVENAKDIIACGF
 DINKTFIFSDLDYMGMSGFYKNVVKIQKHVTFNQVKGIFGFTDSDCIGKISF PAIQAA
 PSFSNSFPQIFRDRTDIQCLIPCAIDQDPYFRMTRDVAPRIGYPKPALLHSTFFPALQ
 GAQTKM SASDPNSSIFLDTAKQIKTKVNKHAFSGGRDTIEEHRQFGGNCDVDVSF
 MYLTFFLEDDDKLEQIRKDY TSGAMLTGELKKALIEVLQPLIAEHQARRKEVTDEIVK
 EFMTPRKLSFDFQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Aminoacyl-tRNA biosynthesis, Tryptophan metabolism
Full Length	Full L.

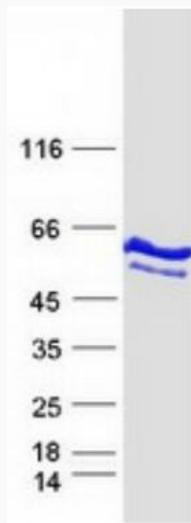
GENE INFORMATION

Gene Name	WARS1 tryptophanyl-tRNA synthetase 1 [Homo sapiens (human)]
Official Symbol	WARS1

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Synonyms	HMN9; WARS; IFI53; IFP53; GAMMA-2
Gene ID	7453
mRNA Refseq	NM_173701.2
Protein Refseq	NP_776049.1
MIM	191050
UniProt ID	P23381
 Coomassie blue staining of purified WARS1 protein.	