

## Product datasheet for TP313605

### Tryptophanyl tRNA synthetase (WARS) (NM\_173701) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human tryptophanyl-tRNA synthetase (WARS), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC213605 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MPNSEPASLLELFNSIATQGELVRSCLKAGNASKDEIDSAVKMLVSLKMSYKAAAGEDYKADCPPGNPAPT  
SNHGPDATEAEEDFVDPWTVQTSSAKGIDYDKLIVRFGSSKIDKELINRIERATGQRPHHFLRRGIFFSH  
RDMNQVLDAYENKKPFYLYTGRGPSSEAMHVGHLPFIFTKWLQDVFNVLVIQMTDDEKYLWKDLTLDQ  
AYSAYAVENAKDIIACGFDINKTFIFSDLDYMGMSGFYKNVVKIQKHVTFNQVKGIFGFTDSDCIGKISF  
PAIQAAPSFNSFPQIFRDRTDIQCLIPCAIDQDPYFRMTRDVPAPRIGYKPKALLHSTFFPALQGAQTKM  
SASDPNSSIFLTDATAKQIKTKVNHAFSGGRDTIEEHRQFGGNCDDVDVSMYLTFFLEDDDKLEQIRKDY  
TSGAMLTGELKKALIEVLQPLIAEHQARRKEVTDEIVKEFMTPRKLSDFDQ

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	53 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_776049](#)

Locus ID: 7453

UniProt ID: [P23381](#)

RefSeq Size: 2660

Cytogenetics: 14q32.2

RefSeq ORF: 1413

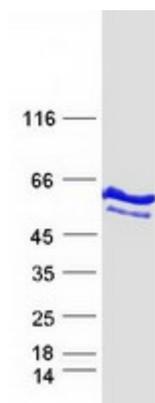
Synonyms: GAMMA-2; HMN9; IFI53; IFP53; WARS

**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Aminoacyl-tRNA biosynthesis, Tryptophan metabolism

### Product images:



Coomassie blue staining of purified WARS protein (Cat# TP313605). The protein was produced from HEK293T cells transfected with WARS cDNA clone (Cat# [RC213605]) using MegaTran 2.0 (Cat# [TT210002]).