

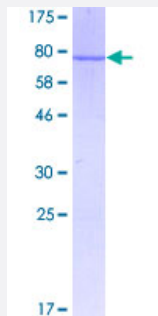
Full-Length

# WARS (Human) Recombinant Protein (P01)

Catalog # H00007453-P01

Size 10 ug, 25 ug

## Applications



## Specification

### Product Description

Human WARS full-length ORF ( AAH17489, 1 a.a. - 471 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MPNSEPASLLELFNSIATQGELVRSLKAGNASKDEIDSAVKMLVSLKMSYKAAAGEDYKADCPP  
GNPAPTSNHGPDATEAEEDFVDPWTVQTSSAKGIDYDKLIVRFSSKIDKELINRIERATGQRPHH  
FLRRGIFFSHRDMNQVLDAYENKKPFYLYTGRGPSSEAMHVGHLPFFITKWLQDVFNVPLVIQMT  
DDEKYLWKDLTLDQAYSAYENAKDIIACGFDINKTFIFSDLDYMGMSGFYKNVVKIQKHVTFNQV  
KGIFGFTDSDCIGKISFPAIQAAPSFNSFPQIFRDRTDIQCLIPCAIDQDPYFRMTRDVAPRIGYPKP  
ALLHSTFFPALQGAQTKMSASDPNSSIFLTD TAKQIKTKV NKHAFSGGRDTIEEHRQFGGNCDDV  
VSFMYLTFFLEDDDKLEQIRKDYTS GAML TGELKKALIEVLQPLAEHQARRKEVTDEIVKEFMTPR  
KLSFDFQ

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

77.66

### Interspecies Antigen Sequence

Mouse (90); Rat (89)

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| Storage Buffer      | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| Storage Instruction | Store at -80°C. Aliquot to avoid repeated freezing and thawing.          |
| Note                | Best use within three months from the date of receipt of this protein.   |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — WARS

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">7453</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| GeneBank Accession# | <a href="#">BC017489</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Protein Accession#  | <a href="#">AAH17489</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Name           | WARS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Alias          | GAMMA-2, IFI53, IFP53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Description    | tryptophanyl-tRNA synthetase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Omim ID             | <a href="#">191050</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Summary        | <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. 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]</p> |
| Other Designations  | interferon-induced protein 53 tryptophan tRNA ligase 1, cytoplasmic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Pathway

- [Aminoacyl-tRNA biosynthesis](#)
- [Tryptophan metabolism](#)

## Disease

- [Atherosclerosis](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Myocardial Infarction](#)