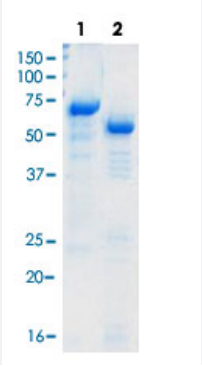
Full-Length

WARS (Human) recombinant protein

Catalog # P5932 Size 50 ug

Applications



Loading 2 ug protein in SDS-PAGE: Lane1: BSA, Lane2: His-WARS.

Specification

Product Description	Human WARS full-length recombinant protein with His tag expressed in *Escherichia coli*.
Host	Escherichia coli
Theoretical MW (kDa)	53
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purification	Multi-step chromatography.
Concentration	0.67 mg/ml
Purity	97.1%
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue Loading 2 ug protein in SDS-PAGE: Lane1: BSA, Lane2: His-WARS.

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Recommend Usage	SDS-PAGE Western blot ELISA Antibody production Protein Array Activity assay The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (50 ug/ml Kanamycin)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay
- Western Blot
- SDS-PAGE

Gene Info — WARS

Entrez GeneID	7453
Gene Name	WARS
Gene Alias	GAMMA-2, IFI53, IFP53
Gene Description	tryptophanyl-tRNA synthetase
Omim ID	191050
Gene Ontology	Hyperlink
Gene 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

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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

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