Recombinant Human WARS Protein, His-tagged

Cat. No. WARS-164H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human WARS, transcript variant 1, fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
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	Supplied as a 0.2 μm filtered solution of 20mM TrisHCl, 1mM DTT, 100mM NaCl, 1mM DTT, 10% Glycerol, pH8.0
Molecular Mass	55kD
AA Sequence	MGSSHHHHHHSSGLVPRGSHMPNSEPASLLELFNSIATQGELVRSLKAGNASKDEI DSAVKMLVS LKMSYKAAAGEDYKADCPPGNPAPTSNHGPDATEAEEDFVDPWTV QTSSAKGIDYDKLIVRFGSS KIDKELINRIERATGQRPHHFLRRGIFFSHRDMNQVLD

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	AYENKKPFYLYTGRGPSSEAMHVGHLI PFIFTKWLQDVFNVPLVIQMTDDEKYLWK DLTLDQAYSYAVENAKDIIACGFDINKT
Endotoxin	Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining

GENE INFORMATION

Gene Name	WARS tryptophanyl-tRNA synthetase [Homo sapiens]
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_004184
Protein Refseq	NP_004175
MIM	191050
UniProt ID	P23381

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