

## WARS Human

**Description:**WARS Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 491 amino acids (1-471 a.a.) and having a molecular mass of 55.3 kDa. The WARS is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #:ENPS-552

For research use only.

**Synonyms:**GAMMA-2, IFI53, IFP53, WRS, WARS, TrpRS, hWRS, EC=6.1.1.2, Tryptophanyl-tRNA synthetase, Interferon-induced protein 53, Tryptophan--tRNA ligase, GAMMA-2.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MPNSEPASLL ELFNSIATQG  
ELVRSCLKAGN ASKDEIDSAV KMLVSLKMSY KAAAGEDYKA DCPGPNPAPT SNHGPDATEA  
EEDFVDPWTV QTSSAKGIDY DKLIVRFGSS KIDKELINRI ERATGQRPHH FLRRGIFFSH  
RDMNQVLDAY ENKKPFYLYT GRGPSSEAMH VGHLIPFIFT KWLQDVFNVLP LVIQMTDDEK  
YLWKDLTLDQ AY

**Purity:**Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

1mg/ml solution containing 20mM Tris-HCl pH-8, 1mM DTT, 0.1M NaCl, 1mM DTT & 10% glycerol.

**Stability:**

WARS Human although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

WARS is part of the class I tRNA synthetase family. 2 types of tryptophanyl tRNA synthetase exist, a cytoplasmic form, called WARS, and a mitochondrial form, called WARS2. WARS catalyzes the aminoacylation of tRNA(trp) with tryptophan and is induced by interferon. WARS controls ERK, Akt, and eNOS activation pathways that are related with angiogenesis, cytoskeletal reorganization and shear stress-responsive gene expression.

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