

**Recombinant Human WARS**

Catalog No: C300

<b>Description</b>	Recombinant Human Tryptophan-tRNA ligase, cytoplasmic is produced by our E.coli expression system and the target gene encoding Met1-Gln471 is expressed with a 6His tag at the N-terminus.	
<b>Source</b>	E.coli	
<b>Alternative name</b>	WARS also known as Tryptophanyl-tRNA synthetase; Interferon-induced protein 53.	
<b>Accession No.</b>	P23381	
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, pH 8.0.	
<b>Quality Control</b>	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg).	
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.	
<b>Storage</b>	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	

**Background** There exists two types of tryptophanyl tRNA synthetases, the cytoplasmic form called WARS, the mitochondrial form called WARS2. WARS catalyzes the aminoacylation of tRNA (trp) with tryptophan and is induced by interferon. WARS regulates ERK, Akt, eNOS activation pathway, which are related with angiogenesis, cytoskeletal reorganization and shear stress-responsive gene expression.

