

**WRS (Tryptophanyl-tRNA synthetase)**

**Cat.NO.: TP04504**

3th Edition

**Synonyms:**IFI53, IFP53.

**Description:**Tryptophanyl-tRNA synthetase (WRS) basically catalyzes the ligation of tryptophan with tryptophanyl-tRNA. WRS is overexpressed by IFN $\gamma$  and secreted to inhibit the vascular angiogenesis. 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:**Phosphate buffered saline, pH 7.4.

**Molecular Weight:**53kDa

**Sequences:**

**Purity:**> 95% by HPLC

**Concentration:**0.67mg/ml

**Endotoxin Level:**<1.0 EU per 1  $\mu$ g of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.