



Recombinant Protein Technical Manual
Recombinant Human WARS/TrpRS Protein (His Tag)
RPES1526

Product Data:

Product SKU: RPES1526

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P23381

Protein Information:

Molecular Mass: 55.3 kDa

AP Molecular Mass: 60 kDa

Tag: N-6His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: WARS also known as Tryptophanyl-tRNA synthetase; Interferon-induced protein 53.

Immunogen Information:

Sequence: Met 1-Gln471

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.