

WARS Protein, Human, Recombinant (E. coli, His)

General Information

Synonyms:	IFI53;tryptophanyl-tRNA synthetase;IFP53; γ -2;GAMMA-2
Protein Construction:	Met1-Gln471
Species:	Human
Expression Host:	E. coli
Accession:	P23381
Molecular Weight:	55.3 kDa (Predicted); 60 kDa (Reducing conditions)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μ m filtered solution of 20 mM PB, 8% Trehalose, 4% Mannitol, 50 mM NaCl, 0.05% Tween 80, pH7.5.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481