

Recombinant Human WARS/TrpRS Protein (His Tag)

Catalog Number:PKSH033156



Note: Centrifuge before opening to ensure complete recovery of vial contents.

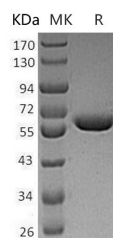
Description

Synonyms	WARS also known as Tryptophanyl-tRNA synthetase;Interferon-induced protein 53.
Species	Human
Expression Host	E.coli
Sequence	Met 1-Gln471
Accession	P23381
Calculated Molecular Weight	55.3 kDa
Observed molecular weight	60 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, 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 PB, 8% Trehalose, 4% Mannitol, 50mM NaCl, 0.05% Tween 80, pH7.5. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the speci
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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.

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