

Recombinant Human Threonyl-tRNA Synthetase, His-tagged

Cat. No. TARS-217H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PL-7 produced in Sf9 is a glycosylated, polypeptide chain having a molecular mass of 83,312 dalton. Recombinant PL-7 is expressed with a -6xHis tag and purified by proprietary chromatographic techniques.
Species	Human
Source	Sf9 Cells
Description	Threonyl-tRNA synthetase is a member of the aminoacyl-tRNA synthetase family, key enzymes of protein biosynthesis which charge tRNA molecules with the respective amino acids. This 83 kDa protein is an autoantigen recognized by PL-7 antibodies which occur in a subset of patients with polymyositis and dermatomyositis. Preliminary data suggest that PL-7 antibodies (similar to Jo-1 antibodies) indicate an increased risk for lung involvement, but this needs to be confirmed for a larger number of cases.
Physical Appearance	Sterile Filtered clear solution.
Formulation	Recombinant Human PL-7 is supplied at a of 0.5 mg/ml in 20mM HEPES buffer pH-8, 200mM sodium chloride, and 20% glycerol.
Stability	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze-thaw cycles.
Purity	Greater than 95% (SDS-PAGE).

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Immunological Functions	1. Binds IgG-type human auto-antibodies. 2. Standard ELISA test (checker-board analysis of positive/negative sera panels immuno-dot test).
Applications	Western-Blot with monoclonal anti-hexa-His-tag antibody & Polymyositis sera.
Coating Concentration	0.3-0.8 µg/ml (depending on the type of ELISA plate and coating buffer). Suitable for biotinylation and iodination.

GENE INFORMATION

Gene Name	TARS threonyl-tRNA synthetase [Homo sapiens]
Synonyms	TARS; threonyl-tRNA synthetase; ThrRS; MGC9344; Threonyl-tRNA synthetase, cytoplasmic; Threonine--tRNA ligase; EC 6.1.1.3; threonine tRNA ligase 1, cytoplasmic
Gene ID	1158
mRNA Refseq	NM_152295
Protein Refseq	NP_689508
MIM	187790
UniProt ID	P26639
Chromosome Location	5p13.2
Pathway	Aminoacyl-tRNA biosynthesis; Gene Expression

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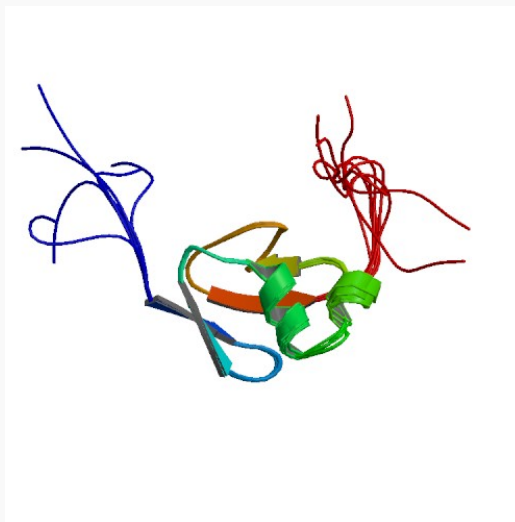
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Function

ATP binding; ligase activity; nucleotide binding; protein binding; protein homodimerization activity; threonine-tRNA ligase activity

PDB rendering based on 1wwt.



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