

## TARS

### Recombinant Human Threonyl-tRNA Synthetase His

<b>Catalog No.</b>	CSI10691 CSI10692 CSI10693	<b>Quantity:</b>	5 µg 20 µg 1.0 mg
<b>Alternate Names:</b>	Threonyl-tRNA synthetase cytoplasmic, Threonine-tRNA ligase, ThrRS, PL-7, TARS.		
<b>Description:</b>	<p>Threonyl-tRNA Synthetase catalyzes the aminoacylation of tRNA by their cognate amino acid. Because of the central role in linking amino acids with nucleotide triplets contained in tRNAs, aminoacyl-tRNA synthetases are thought to be among the first proteins that appeared in evolution. Threonyl-tRNA synthetase belongs to the class-II aminoacyl-tRNA synthetase family.</p> <p>TARS 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, like Jo-1 antibodies, indicate an increased risk for lung involvement, but this needs to be confirmed for a larger number of cases.</p> <p>Recombinant Human Threonyl-tRNA Synthetase produced in Sf9 is a glycosylated, polypeptide chain having a molecular mass of 83.3 kDa. The protein is expressed with a -6x His tag and purified by proprietary chromatographic techniques.</p>		
<b>Physical Appearance:</b>	Sterile Filtered clear solution.		
<b>Gene ID:</b>	6897		
<b>Source:</b>	Sf9 insect cells		
<b>Molecular Mass:</b>	83.3 kDa		
<b>Formulation:</b>	TARS is supplied in 20 mM HEPES buffer, pH 8, + 200 mM sodium chloride + 20% glycerol.		
<b>Purity:</b>	Greater than 90% as determined by SDS-PAGE.		
<b>Applications:</b>	<ol style="list-style-type: none"> <li>1. Binds IgG-type human auto-antibodies.</li> <li>2. Standard ELISA test (checker-board analysis of positive/negative sera panels immuno-dot test). Coating concentration: 0.3-0.8 µg/ml (depending on the type of ELISA plate and coating buffer).</li> <li>3. Suitable for biotinylation and iodination.</li> <li>4. Western-Blot with monoclonal anti-hexa-His-tag antibody &amp; Polymyositis sera</li> </ol>		
<b>Storage &amp; Stability:</b>	<p>Store at 2-4°C if entire vial will be used within 2-4 weeks.</p> <p>Store, frozen at -20°C for longer periods of time. <b>Avoid multiple freeze-thaw cycles.</b></p>		

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**