



## Product Datasheet

<b>Product Name</b>	Threonyl-tRNA Synthetase Human Recombinant
<b>Cata No</b>	CB500481
<b>Source</b>	<i>Sf9 insect cells.</i>
<b>Synonyms</b>	Threonyl-tRNA synthetase cytoplasmic, EC 6.1.1.3, Threonine-tRNA ligase, ThrRS, MGC9344, PL-7, TARS.

### 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. Threonyl-tRNA Synthetase Human Recombinant produced in SF9 is a glycosylated, polypeptide chain having a molecular mass of 83,312 Dalton.

PL-7 is expressed with a -6xHis tag and purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered clear solution.

### Purity

Greater than 90% as determined by SDS-PAGE.

### Formulation

PL-7 is supplied in 20mM HEPES buffer pH-8, 200mM sodium chloride, and 20% glycerol.

### Applications

Western-Blot with monoclonal anti-hexa-His-tag antibody & Polymyositis sera.