

Product Data Sheet

□ Cat # RP-390

Recombinant Human Threonyl t-RNA Synthetase

Size: □ 5 ug

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

Source: *Sf9 insect cells*. 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 PL-7 is supplied at a of 0.5 mg/ml in 20mM HEPES buffer pH-8, 200mM sodium chloride, and 20% glycerol

Applications and Suggested Dilutions: 1. Binds IgG-type human auto-antibodies. 2. Standard ELISA test (checker-board analysis of positive/negative sera panels immuno-dot test). 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. Greater than 90% as determined by SDS-PAGE Users must optimize the appropriate concentration and conditions for each assay.

Storage and 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. Avoid multiple freeze-thaw cycles. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage.

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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