



Product Datasheet

Product Name	Alanyl-tRNA Synthetase Human Recombinant
Cata No	CB500482
Source	<i>Sf9 insect cells.</i>
Synonyms	Alanyl-tRNA synthetase cytoplasmic, EC 6.1.1.7, Alanine-tRNA ligase, AlaRS, Renal carcinoma antigen NY-REN-42, PL-12, AARS.

Description

Alanyl-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 108 kDa protein is an autoantigen recognized by PL-12 antibodies which occur in a subset of patients with polymyositis and dermatomyositis. Preliminary data suggest that epitope spreading occurs in the autoimmune PL-12 response such that even antibodies to an isolated alanyl-tRNA molecule can develop.

Alanyl-tRNA synthetase Human Recombinant produced in SF9 is a glycosylated, polypeptide chain having a molecular mass of 107,598 Dalton.

PL-12 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-12 is supplied in 16mM HEPES buffer pH-8, 250mM sodium chloride, and 20% glycerol.

Applications

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