

Recombinant Human Alanyl-tRNA Synthetase (PL-12)

Antigen Specification

Product Number: 15700

Description:

Human alanyl-tRNA synthetase (EC 6.1.1.7; PL-12 antigen)
Recombinant antigen for solid (ELISA) and fluid phase diagnostic assays.

Calculated molecular weight:

107,958 Dalton

Calculated isoelectric point:

pH 5.4

Immunological function:

Binds IgG-type human auto-antibodies.

Immunological tests/Functionality:

Standard ELISA test (checker-board analysis of positive/negative sera panels), immuno-dot test

Origin:

Recombinant. Expressed by recombinant baculovirus (*Autographa californica* multiple nuclear polyhedrosis virus; AcMNPV) infection of *Spodoptera frugiperda* Sf9 insect cells.

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: ionic strength between around 250 mM salt, neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent. Storage temperature: -70° to -80° C. Repeated freeze/thaw cycles should be avoided.

Expression construct:

Full-length cDNA coding for the human alanyl-tRNA synthetase (PL-12) fused to a hexa-histidine purification tag.

Coating concentration:

0.3-0.8 $\mu\text{g/ml}$ (depending on the type of ELISA plate and coating buffer). Suitable for biotinylation and iodination.

Biochemical tests:

SDS-PAGE (purity > 90 %); Western-Blot with i: Polymyositis sera; ii: monoclonal anti-hexa-His-tag antibody.

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