

Alanyl-tRNA Synthetase (PL-12)

Antigen Specification

Product Number: 15700

Description:

Human alanyl-tRNA synthetase (EC 6.1.1.7; PL-12).
Recombinant antigen for in vitro research and manufacturing use only.

Immunological function:

Binds IgG-type human auto-antibodies.

Origin:

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

Expression construct:

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

Biochemical tests:

SDS-PAGE (purity > 90%); Western blot with i: anti-PL-12 autoantibody-positive sample; ii: monoclonal anti-His-tag antibody.

Calculated molecular weight:

108 kDa

Calculated isoelectric point:

pH 5.4

Immunological tests/Functionality:

Standard ELISA test (checkerboard analysis of positive/negative samples); immunodot analyses with positive/negative samples.

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH and 20% glycerol as cryoprotective agent.
Storage conditions: -70°C or below.
Repeated freeze/thaw cycles should be avoided.

Coating concentration:

0.3-0.8 µg/mL (depending on the type of ELISA plate and coating buffer).
Suitable for labeling of functional groups.

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