

## Recombinant Human Histidyl-tRNA Synthetase (Jo-1)

### Antigen Specification

**Product Number:** 12900

**Description:**

Human histidyl-tRNA synthetase (EC 6.1.1.21; Jo-1 antigen)  
Recombinant antigen for solid (ELISA) and fluid phase diagnostic assays.

**Calculated molecular weight:**

58,291 Dalton

**Calculated isoelectric point:**

pH 5.9

**Immunological function:**

Binds IgG-type human auto-antibodies.

**Immunological tests/Functionality:**

Standard ELISA test (checker-board analysis of positive/negative sera panels, including CDC international reference sera)

**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 200 and 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 histidyl-tRNA synthetase (Jo-1) fused to a hexa-histidine purification tag.

**Coating concentration:**

0.2-0.4 µg/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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