

## Recombinant Human U1-snRNP C Protein

### Antigen Specification

**Product Number: 13200**

**Description:**

Human U1-snRNP C protein component of the U1 small nuclear ribonucleoprotein particle. Recombinant antigen for solid (ELISA) and fluid phase diagnostic assays.

**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 U1-snRNP C protein fused to a hexa-histidine purification tag.

**Biochemical tests:**

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

**Calculated molecular weight:**

18,217 Dalton

**Calculated isoelectric point:**

pH 10.2

**Immunological tests/Functionality:**

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

**Recommended buffer/storage and handling conditions:**

Recommendations for storage buffer: neutral to slightly alkaline pH; due to purification workup under denaturing conditions presence of up to 0.02 % SDS (or similar detergents) may be required for maintaining solubility. Storage temperature:  $-70^{\circ}$  to  $-80^{\circ}$  C. Repeated freeze/thaw cycles should be avoided.

**Coating concentration:**

0.3 – 0.6  $\mu$ g/ml (depending on the type of ELISA plate and coating buffer). Suitable for biotinylation and iodination.

**Remark on assays with this antigen:**

Anti-RNP autoantibodies, traditionally determined with the entire U1-snRNP particle as antigen, will require simultaneous use of recombinant U1-snRNP 68, U1-snRNP A and U1-snRNP C antigens for complete identification of anti-RNP positive sera.

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