



Monoclonal antibody to C-reactive protein, clone 5F5, hIgG1

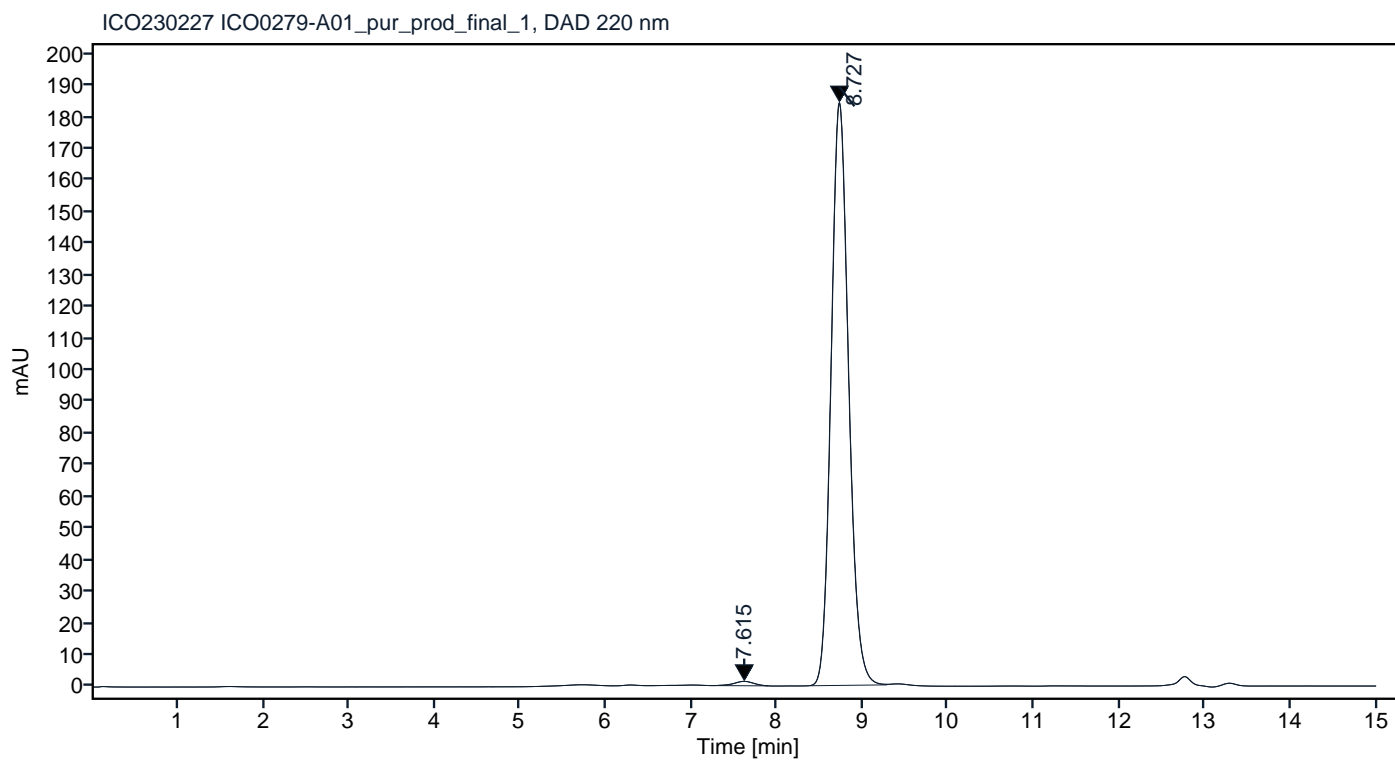
| | |
|------------------------|---|
| Catalogue # | R1-259-100 |
| Immunogen: | Native human C-reactive protein |
| Immunogen Description: | Native human C-reactive protein purified from human pleural fluid. |
| Source: | Human |
| Clonality: | Human monoclonal |
| Clone: | 5F5 |
| Class: | hIgG1 |
| Application: | ELISA, CLIA |
| Kd: | 2.249 x 10 ⁻¹⁰ M |
| Purification: | Produced recombinantly using CHO-based cell line (expressed by QMCF technology). Purified using protein A affinity chromatography followed by desalting |
| Purity: | >90% |
| Concentration: | 1 mg/ml |
| Buffer: | PBS, pH 7.4 |
| QC: | LabChip protein analysis, analytical SEC, Octet BLI analysis |
| Shipping: | Shipped with blue ice. |
| Storage: | Store at +4 °C. |



Figure 1. CE-SDS virtual gel output (LabChip GX) for monoclonal antibody to C-reactive protein, clone 5F5 under non-reduced (NR, left) and reduced (R, right) conditions.

| Peak # | RT (min) | Estimated Mw (Da)* | Area | Area % |
|--------|----------|--------------------|---------|--------|
| 1 | 7.615 | 340464 | 22.10 | 0.83 |
| 2 | 8.727 | 150864 | 2626.31 | 99.17 |

Chromatogram

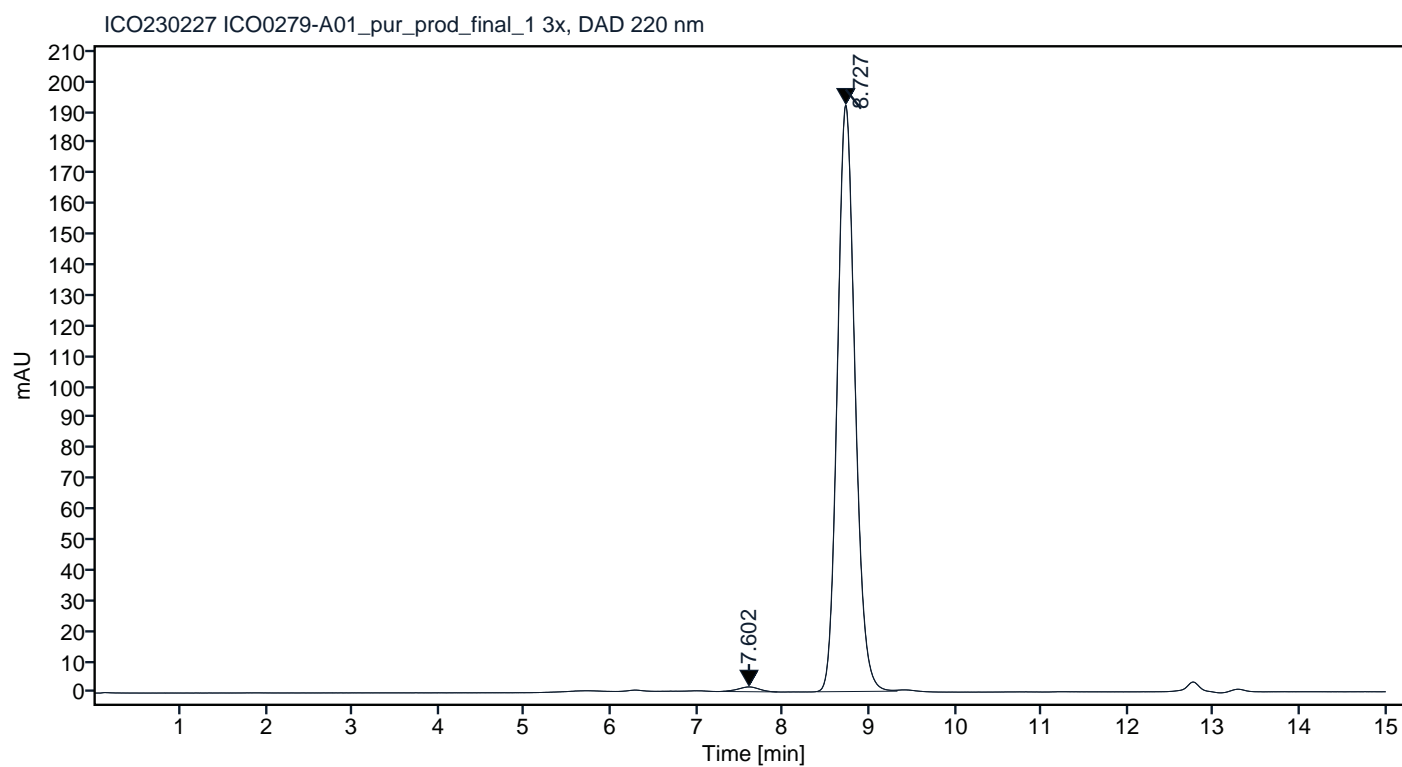


*Calculated using calibration curve obtained from AdvanceBio SEC 300A Protein Standard (p/n 5190-9417) retention times. Peaks with integrated areas below 0.5% of the calculated values were excluded from analysis.

Figure 2. Analytical SEC of final product.

| Peak # | RT (min) | Estimated Mw (Da)* | Area | Area % |
|--------|----------|--------------------|---------|--------|
| 1 | 7.602 | 342617 | 26.54 | 0.96 |
| 2 | 8.727 | 150846 | 2738.14 | 99.04 |

Chromatogram



*Calculated using calibration curve obtained from AdvanceBio SEC 300A Protein Standard (p/n 5190-9417) retention times. Peaks with integrated areas below 0.5% of the calculated values were excluded from analysis.

Figure 3. HPLC analytical SEC after 3 freeze-thaw cycles.

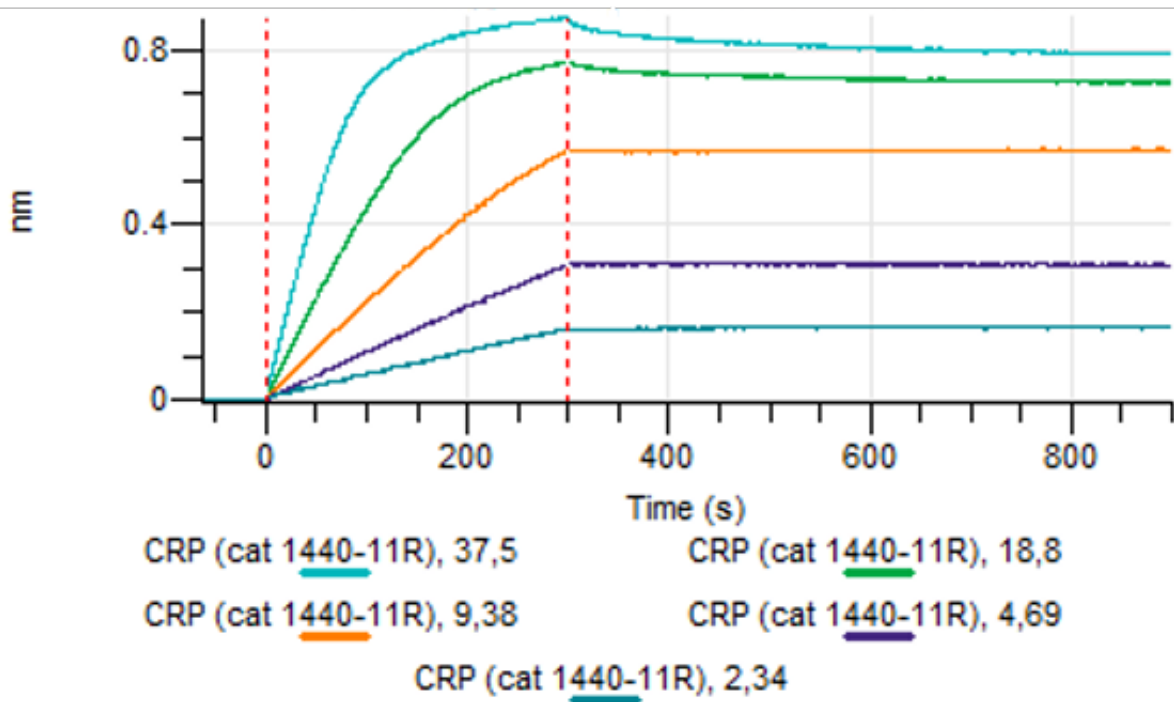


Figure 4. Octet BLI analysis, antibody was loaded on sensor for capture of C-reactive protein in different concentrations.