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# Certificate of Analysis and Data Sheet

## Recombinant Human C-Reactive Protein

**Catalog No.**  
228-10279

**Source:**  
*E. Coli*

### ***Synonyms***

C-reactive protein, CRP, PTX1, MGC88244, MGC149895.

### ***Introduction:***

CRP is an acute phase protein that correlates with inflammatory disease and is synthesized by hepatocytes during the acute phase response by certain cytokines (IL-1 and TNF Alpha and Beta). CRP levels increase dramatically (up to 1,000 fold) and serve as a useful marker of inflammation in such conditions as bacterial infection, rheumatoid arthritis, viral infections, transplantation rejection, meningitis, myocardial infarction, septicemia, osteomyelitis and others. CRP is also highly correlated to Serum Amyloid A levels.

### ***Description:***

Recombinant Human CRP produced in E.Coli is a non-glycosylated polypeptide chain having a total molecular mass of 115 kDa that corresponds to the pentamer structure of 23 kDa monomer determined by amino acid sequence. The CRP is purified by proprietary chromatographic techniques.

### ***Physical Appearance:***

Sterile Filtered clear solution.

### ***Formulation:***

The sterile protein solution contains 20mM Tris (pH 7.5), 2mM CaCl<sub>2</sub>, 0.14M NaCl and 0.05% NaN<sub>3</sub>.

### ***Stability:***

CRP should be stored at all times at 4°C.

### ***Purity***

Greater than 95.0% as determined by

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**