

## Recombinant Human C-Reactive Protein/CRP (C-6His)

Catalog No: C213

<b>Description</b>	Recombinant Human CRP is produced by our E.coli expression system and the target gene encoding Gln19-Pro224 is expressed with a 6His tag at the C-terminus.
<b>Source</b>	E.coli
<b>Alternative name</b>	C-Reactive Protein, CRP, PTX1
<b>Accession No.</b>	P02741
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM Tris, 2M Urea, pH 8.0.
<b>Quality Control</b>	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg).
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Storage</b>	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>Amino Acid Sequence</b>	<p>MQTDMSRKAFVFPKESDTSYVSLKAPLTKPLKAFTVCLHFYTELSSTRGYSIFS YATKRQDNEILIFWSK DIGYSFTVGGSEILFEVPEVT VAPVHICTSWESASGIVEFWVDGKPRVRKSLKKG YTVGAESIILGQE QDSFGGNFEGSQSLVGDIGNVNMWDFVLSPDEINTIYLG GPFSPNVNLNRALKYEVQGEVFTKPQLW PLEHHHHHH</p>
<b>Background</b>	C-reactive protein (CRP) belongs to the pentaxin family. CRP is a secreted protein found in plasma. It can binds two calcium ions per subunit.CRP can promotes phagocytosis, bacterial capsular swelling, complement fixation and agglutination through its calcium-dependent binding to phosphorylcholine which expressed on the surface of dead or dying cells. It can activate the complement system via the C1Q complex. CRP can interact with DNA and histones. In addition, CRP may scavenge nuclear material released from damaged circulating cells.

### SDS-Page

