



# Recombinant Protein Technical Manual

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

RPE3332

### Product Data:

**Product SKU:** RPE3332

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P02741

### Protein Information:

**Molecular Mass:** 23.04 kDa

**AP Molecular Mass:** 27 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 95% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** 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 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mMTris, 2MUrea, pH8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** C-Reactive Protein; CRP; PTX1

## Immunogen Information:

**Sequence:** Gln19-Pro224

## Background:

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.